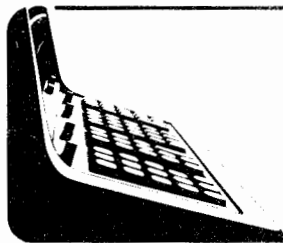


HEWLETT-PACKARD 9866A PRINTER

PERIPHERAL MANUAL



Manual Changes

HP 9866A PRINTER

Peripheral Manual

Part No. 09866-90000



Page 1-2:

Add these items to the accessories table:

Description	Qty.	HP Part No.
:	:	:
Option 21 Accessories		
Printer Control Section	1	09820-90019
Interface Cable	1	09866-51610
Select Code Labels	1 pkg.	7120-2940
:	:	:

Throughout the manual:

Change all references to the 9820A calculator to include the 9821A calculator.

June 1974

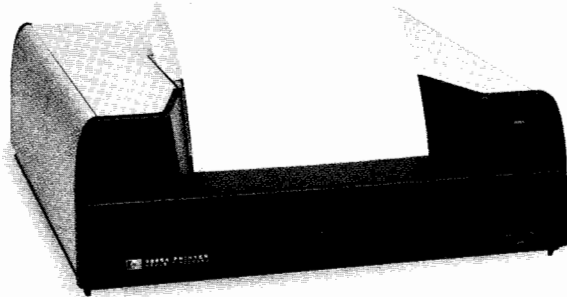
Supplement A for 09866-90000

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.



HEWLETT-PACKARD 9866A PRINTER



HEWLETT-PACKARD CALCULATOR PRODUCTS DIVISION

P.O. Box 301, Loveland, Colorado 80537, Tel. (303) 667-5000

(For World-wide Sales and Service Offices see rear of manual.)

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APPENDIX

Technical Specifications

SALES & SERVICE OFFICES

This manual describes how to install and maintain the -hp- Model 9866A Printer. When the printer is to be used with 9800-Series Calculators, it must be supplied with one of the printer options listed below.

For instructions on how to control the printer with your 9800-Series Calculator, see the Model 30 Operating and Programming Manual if you are using a Model 30 Calculator, or see the Printer Control information supplied with the printer if you are using a Model 10 or 20 Calculator.

The following optional printers are each furnished with an interface cable for use with the indicated 9800-Series Calculator.

- 9866A Option 10 contains a 9810A Calculator interface.
- 9866A Option 20 contains a 9820A Calculator interface.
- 9866A Option 30 contains a 9830A Calculator interface.

When the printer does not contain an 'option', it is supplied with an unterminated interface cable and a manual containing general interfacing information.

The printer uses a unique thermal-printing method which permits a fast, non-impact printout by using special heat-sensitive paper. Thermal printer paper is available in packages of two rolls under the following part numbers (discounts are available for large quantities):

- Two rolls, Black printout -hp- Part No. 9281-0413
- Two rolls, Blue printout -hp- Part No. 9281-0414

A list of printer technical specifications is at the back of this manual.

Service agreements are available for the printer from the nearest -hp- Sales and Service Office.

**PRINTER
OPTIONS**

**ORDERING
PRINTER
PAPER**

SPECIFICATIONS

**SERVICE
CONTRACTS**

GENERAL INFORMATION

SUPPLIED
ACCESSORIES

The accessories listed below are supplied with the printer.

Description	Quantity	-hp- Part No.
Peripheral Manual	2	09866-90000
Interface Cable*	1	09866-61606
Power Cord†	1	8120-1378†
Spare Fuses:		
1.5A, 250V, Slow-blo	2	2110-0304
3.0A, 250V, Slow-blo	1	2110-0381
Dust Cover	1	4040-0504
Printer Paper	2 rolls	9281-0414
Option 10 Accessories:		
Printer Control Section	2	09810-90080
Printer Exerciser Program (consists of a pre-recorded card and envelope)	1	09810-90081
Interface Cable	1	09866-61610
Select Code Labels	1 pkg.	7120-2940
Option 20 Accessories:		
Printer Control Section	2	09820-90019
Supplement 'J' for the Model 20 Electrical Inspection Booklet	1	09820-90067
Interface Cable	1	09866-61610
Select Code Labels	1 pkg.	7120-2940
Option 30 Accessories:		
Interface Cable	1	09866-61630
Dust Cover	1	4040-0505
Power Cord, inter-instrument	1	8120-1575

*This item is not supplied with Options 10, 20, or 30.

†A different U.L. approved power cord, -hp- Part No. 8120-0698, should be used for 220 or 240V operation in the U.S.A.

INITIAL
INSPECTION

The printer and its accessories were carefully inspected before they were shipped to you. Please verify that the correct accessories are present; then inspect the printer for physical damage.

To check printer operation, refer to the Model 30 Operating and Programming Manual if the printer is supplied with Option 30, or refer to the Printer Checkout Procedure supplied with the printer if the printer is supplied with Option 10 or Option 20. The basic printer is not supplied with a checkout procedure, although printer electrical operation is described in a special manual supplied with the basic printer.

If any damage or electrical malfunction is found, contact the nearest -hp- Sales and Service Office; office locations are listed at the back of this manual.

The printer operates from nominal power line voltages of 100, 120, 220, or 240 volts ac. The range of operation is within +5% and -10% of each nominal voltage. Two switches on the printer back panel allow selection of any one of the four nominal voltages (see Figure 1). The line frequency must be within 48 to 66 Hz and the printer requires a maximum of 250 voltamps.

POWER REQUIREMENTS

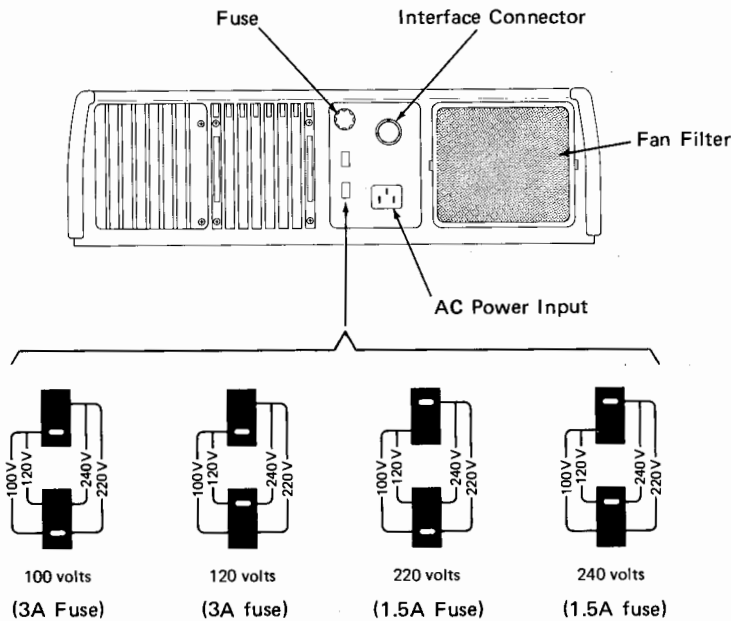


Figure 1. The Printer Back Panel

To protect operating personnel, the National Electrical Manufacturers' Association (NEMA) recommends that the printer cabinet be grounded. The printer is equipped with a three conductor power cable which, when connected to an appropriate power receptacle, grounds the printer cabinet.

GROUNDING REQUIREMENTS

The printer must be fitted with a 3.0 amp fuse for 100/120V operation and a 1.5 amp fuse for 220/240V operation.

PRINTER FUSE

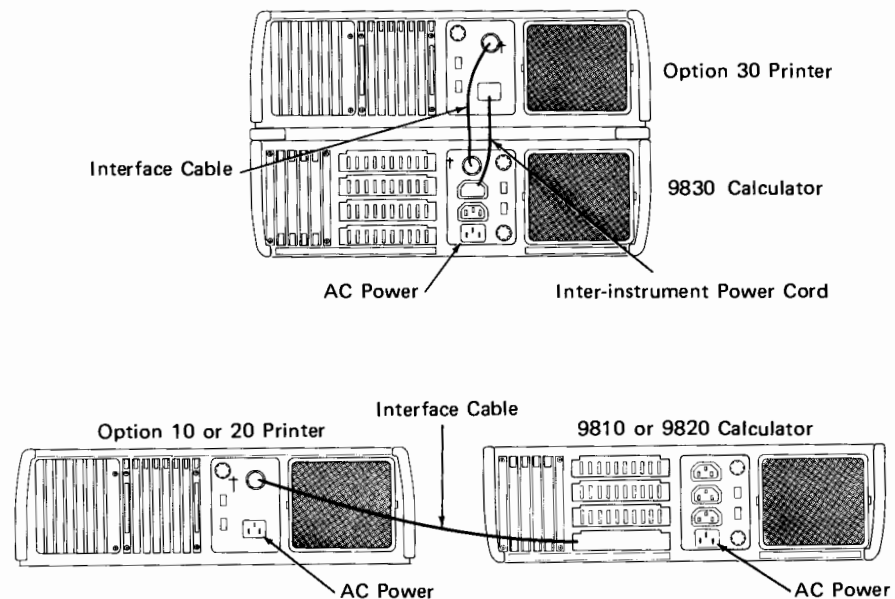
WARNING
BEFORE CHANGING THE FUSE, BE SURE
THAT THE PRINTER IS DISCONNECTED FROM
ANY POWER SOURCE.

Always be sure that the correct fuse is used, since failure to follow this precaution may result in needless damage to the printer if a printer malfunction or an unusual line voltage occurs.

**INITIAL
TURN-ON
PROCEDURE**

1. With the printer disconnected from any ac power source, verify that the correct fuse is installed for the line voltage in your area (see the preceding paragraph).
2. The two slide switches located on the rear panel (see Figure 1) must be set to the particular line voltage to be used. Each switch is set by inserting the tip of a small screwdriver into the white slot and then sliding the switch so that the slot is opposite the line corresponding to the desired voltage.
3. Switch the LINE switch, located on the front of the printer, to the OFF position. Connect the power cord to the ac power input connector (see Figure 1) and plug the other end of the cord into a suitable ac power outlet.
4. If you are using the printer with a Model 10, 20, or 30 Calculator, connect the interface cable as shown in Figure 2. If the printer is not to be used with a 9800-Series calculator, refer to the interfacing information in the manual supplied with the printer.
5. Switch the LINE switch to the ON position; the light above the switch indicates when the printer is switched ON.

The amber light below the PAPER button lights when paper is not loaded in the printer mechanism (the printer will not operate unless it is loaded with paper).



† To connect the interface cable to the printer or a Model 30 calculator, rotate the connector until it is aligned with the socket on the instrument back panel, then twist the knurled sleeve clockwise to lock the connector in place (the connector is unlocked by twisting the sleeve counter-clockwise).

Figure 2. Printer Interface Connections

Printer paper is loaded by using the following procedure. The procedure assumes that the printer is turned ON.

1. Lift the access cover on the top of the printer.
2. Remove and discard the paper core of any previous roll. If the remaining roll is small and a new roll is to be used, remove the old roll by:
 - a. Unrolling and lifting it upwards until the roll is above the printer; then,
 - b. Grasp the roll firmly and pull it upward and forward; the paper guide will tear the paper off cleanly.
3. If any paper remains in the printer mechanism, remove it by pressing the PAPER button until the paper stops moving.
4. Remove the first layer of paper from a new roll. Be sure the paper has a cleanly torn or cut edge, as paper with a ragged edge will probably not load properly.
5. Insert the new roll such that the free end is positioned as shown on the back of the access cover. Press the PAPER button until paper appears at the front of the printer.

**LOADING
PRINTER
PAPER**

If your printer is connected to a Model 30 Calculator, the printer is assigned select code '15', since Model 30 printer commands automatically specify that select code. However, when the printer is used with a Model 10 or Model 20 Calculator, you should read the following information on the printer select code.

**PRINTER
SELECT
CODE**

Since all calculator peripheral devices are connected in a 'party-line' fashion, each device must have a unique 'address' so that the calculator can specify which device should respond to each operation. The printer address (or select code) consists of a one or two-digit number and is determined by the circuitry on the interface card (see Figure 2). Each calculator-to-printer command must include the correct select code, thereby specifying which interface card is to respond to which operation.

The printer can be set to any one of nine select codes by following the procedure given below. However, since each Option 10 or Option 20 interface card is preset to select code 8 at the factory, printer programming information (program listings and pre-recorded programs) supplied by -hp- will usually specify select code 8. Therefore, to run programs supplied by -hp-, you must either reset your printer to respond to select code 8 or modify each printer command in the program to specify the correct select code. The Printer Control section of your Peripheral Control Block Operating Manual describes which part of each printer command specifies the select code.

**PRINTER
SELECT
CODE**
(continued)

1. Switch the calculator and the printer OFF.
2. Disconnect the printer interface card from the calculator. Remove the four screws located on the top of the card assembly; then, turn the card over and lift off the bottom cover.
3. Locate the Select Code Switch (see Figure 3). Raise the hinged cover on the switch. Using a small, flat-blade screwdriver; *carefully rotate* the selector tab until it is positioned at any desired select code number from 1 to 9 (numbers are printed on the side and on the top cover of the switch). Before closing the cover, be sure the slot in the selector tab is positioned perpendicular to the length of the switch.
4. Close the switch cover and replace the interface card bottom cover. Secure the cover with the four screws which were removed in step 2.
5. Replace the Select Code label on the interface card with one which indicates the new select code. A package of labels is supplied with Option 10 and 20 Printers.
6. Reconnect the interface card to the calculator and turn the calculator and printer ON. Verify that the desired select code is set by performing some printer operations (or running a program) which specify the new select code.

If you have difficulty in setting the select code, contact the nearest -hp- Sales and Service Office for assistance.

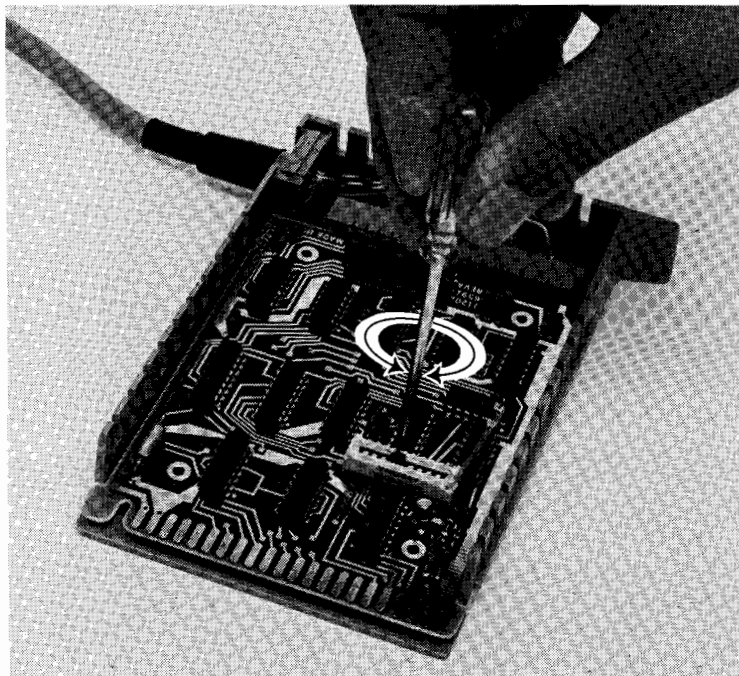


Figure 3. Setting the Printer Select Code

An appropriate peripheral control block (ROM block) must be used when the printer is connected to a Model 10 or Model 20 Calculator. This block provides the necessary output commands to enable your calculator to control the printer.

Any -hp- Sales and Service Office can assist you in determining which peripheral control block is correct for your calculator.

**THE
PERIPHERAL
CONTROL
BLOCK**

The printer can be cleaned by using a soft, damp cloth; however, do not use any abrasive cleaners and do not let moisture get inside the printer.

**CLEANING
THE PRINTER**

The fan filter (located at the back of the printer) should be cleaned at least once every three months. The filter can be removed by prying it out with a small, blunt instrument such as a screwdriver or nail file. Clean the filter by rinsing it in clean water. Dry the filter completely before re-installing it.

2-6

NOTES

TECHNICAL SPECIFICATIONS



Printing Speed:	240 lines/minute
Print Density:	80 characters/line 6 lines/inch (2.4 lines/cm)
Character Set:	64 alphanumeric characters*, a complete character set is shown below: <pre> ABCDEFGHIJKLMNPOQRSTUVWXYZ .1234567890 ()+-*/\^_@,?'&%\$#=#!:=<> [" ;] </pre>
Data Input Format:	7 line ASCII code, bit-parallel, character-series fashion
Printer Paper:	8-3/4" wide thermal sensitive paper, available in 250' rolls
Size:	17-3/4" × 16" × 6" (45.09 cm × 40.64 cm × 15.24 cm)
Weight:	37.75 lbs. (17.1 kg)
Power Requirements:	Nominal voltage ranges – 100, 120, 220, 240V ac; +5% to –10% of each range Frequency range – 48 to 66 Hz Power – 250 voltamps, maximum
Temperature Range:**	0°C to 45°C
Humidity Range:**	95% relative humidity maximum (non-condensing)

* All characters are not available with some calculator systems.

** The printer paper is sensitive to high temperature and high humidity conditions.

ELECTRONIC

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Tel: 230833
Telex: 3481103, Curunda,
Canal Zone
Cable: ELECTRON Panama City

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Division: Aparatos y Equipos
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PERU

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San Isidro
Casilla 1030
Lima
Tel: 22-3900
Cable: ELMED Lima

PUERTO RICO

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P.O. Box 5167
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San Juan 00906
Tel: (809) 725-3342, 722-3342
Cable: SATRONICS San Juan
TWX: SATRON 3450 332

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Montevideo
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Cable: RADIUM Montevideo

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