

MANUAL CHANGES

MODEL 9120A
CALCULATOR PRINTER
Manual Part No. 09120-90000

Instrument Serial Number	Make Manual Changes	Instrument Serial Number	Make Manual Changes
ALL	ERRATA		

ALL	ERRATA		

ERRATA

Page 5:

Delete all remarks pertaining to removal of the four thumbscrews from the bottom of the printer.

OPERATING INSTRUCTIONS

**HEWLETT-PACKARD 9120A
SHOWN WITH 9100**

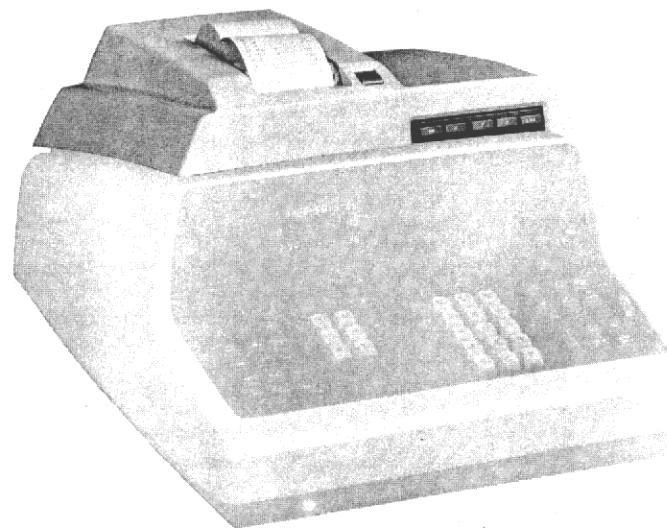


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GENERAL INFORMATION

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A member of the growing 9100 system's instrument family, the 9120A printer gives the 9100 series calculator printing power. The 9120A will print, singularly or in any combination, the contents of the calculator's X keyboard, Y accumulate, and Z temporary registers. The printer will also print the contents of the calculator's memory.

The Model 9120A requires either 115 or 230 volts AC $\pm 10\%$, 50 to 60 Hertz and approximately 45 watts of power. With the printer disconnected from the AC power source, slide the line voltage switch on the rear panel until the line is under the voltage to be used.

GENERAL DESCRIPTION

POWER REQUIREMENTS

CAUTION

THE 9100A CALCULATOR WILL
OPERATE FROM A 400 HERTZ
POWER SOURCE, THE 9120A
PRINTER WILL NOT DAMAGE
COULD RESULT TO THE PRINTER
IF 400 HERTZ POWER IS APPLIED.

CAUTION

DO NOT APPLY OPERATING POWER
TO THE 9120A PRINTER UNLESS
THE LINE VOLTAGE SWITCH ON THE
REAR PANEL IS IN THE PROPER
POSITION.

Radio Frequency Interference (RFI) is generated by many electrical devices, included in this group is the 9120A. A paper length of less than one foot will minimize the amount of RFI generated by the printer; as the paper is conductive it acts as an antenna.

RADIO FREQUENCY INTERFERENCE

To protect operating personnel, the National Electrical Manufacturer's Association (NEMA) recommends that the printer keyboard and cabinet be grounded. The printer is equipped with a three-conductor power cable which, when plugged into an appropriate receptacle, grounds the cabinet of the printer. The center pin on the power cable three-pronged connector is the ground connection.

GROUNDING REQUIREMENTS

GENERAL INFORMATION

ACCESSORIES EQUIPMENT SUPPLIED

The accessory equipment supplied with each model 9120A is listed in Table 1.

TABLE 1

Accessories/Equipment Supplied

PART NO.	QUANTITY	DESCRIPTION
09120-90000	2	Operating Manual
8120 - 1378	1	Power Cord
9270 - 0802	1	3 roll package of Printer Paper
4040 - 0438	1	Dust Cover

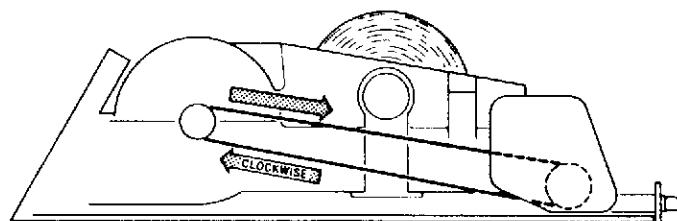
Printer Paper is available in 24 roll quantities, HP Part No. 9270-0815.

COVER REMOVAL

If the top cover is removed the following caution should be observed:

CAUTION

IF THE PRINT FINGER ASSEMBLY IS MANUALLY ENGAGED, ALWAYS TURN THE DRIVE BELT IN CLOCKWISE DIRECTION. TURNING THE BELT IN THE COUNTERCLOCKWISE DIRECTION WITH THE PRINT FINGERS ENGAGED FOR PRINTING WILL DESTROY THE PRINT FINGERS.



STEP 1

Locate the thumbscrews on the top of the Calculator. Press down on the thumbscrews and turn them counter-clockwise to their fully extended position.

NOTE

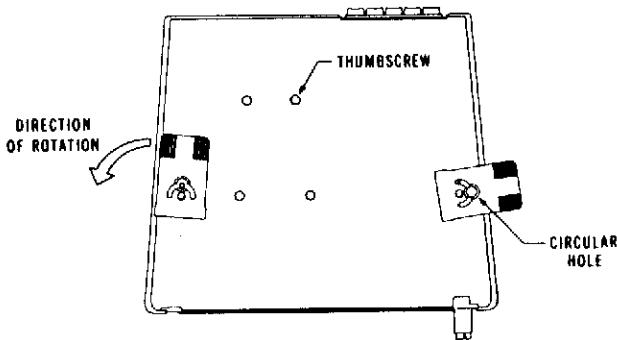
If the thumbscrews are too tight, use a large block pencil eraser to extend the thumbscrews.

STEP 2

Remove the printer from its shipping container and stand it on its rear edge. Remove the four thumbscrews from the bottom of the printer.

CAUTION

THE THUMBSCREWS WILL DAMAGE
THE CALCULATOR'S TOP IF THEY
ARE NOT REMOVED. RETAIN THE
THUMBSCREWS; THEY MUST BE
REINSTALLED FOR SHIPMENT.



Turn the plastic wings from their stored position to the fully extended position. Notice the two circular holes that have appeared near the pivot point of the wings; they will fit over the thumbscrews on the calculator.

INSTALLATION

STEP 3

Lift the printer by the wings and place the circular holes over the thumbscrews. Rotate the wings toward the front of the printer until a stop is felt.

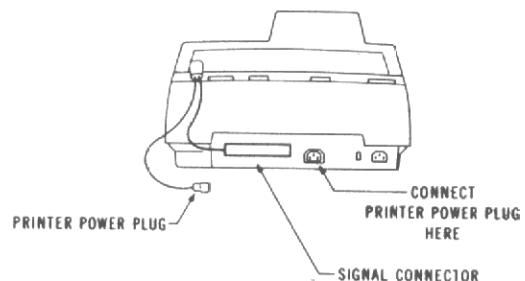


NOTE

If the Model 9125A Calculator Plotter is used in conjunction with the printer, skip at this point to Step 5.

STEP 4

Turn the calculator off. Connect the signal connector to the rear of the calculator. It is keyed to assist in installation.

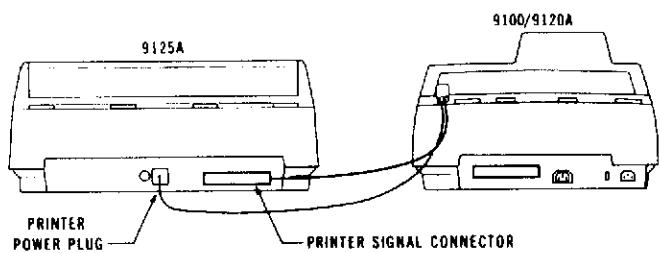


If the rear of the calculator has a receptacle which will accept the printer's power plug, connect the two. If the rear of the calculator does not have the receptacle connect the supplied adapter between the printer's power plug and a wall receptacle.

STEP 5**NOTE**

This procedure assumes that the printer has been installed on the calculator.

Turn the calculator off. Install the printer signal connector in the rear of the plotter. Connect the printer's power plug into the rear of the plotter. If the connectors will not mate use the supplied power cable adapter to make the connection.

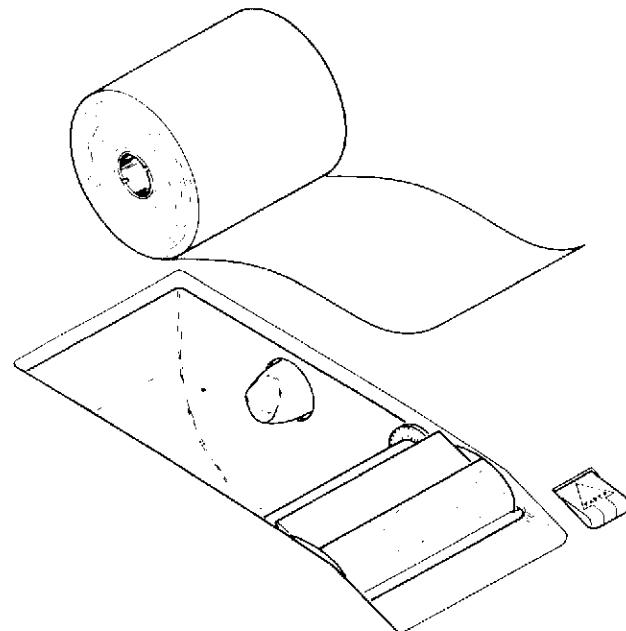


PAPER LOADING

STEP 1

Turn the calculator and printer ON.

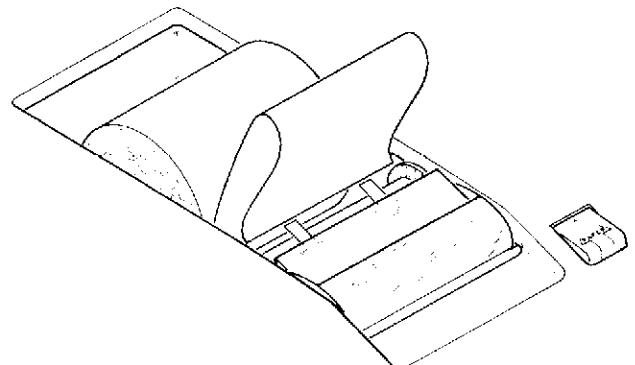
Unroll approximately twelve inches of paper from the roll. Grasp the roll and push the paper roll between the paper holders.



STEP 2

Insert the paper over the roller and under the paper release. Push the paper in as far as possible. While still pushing on the paper, depress paper load key. When approximately two inches of paper has been taken up, stop pushing the paper.

Hold the paper load key depressed until approximately one inch of paper shows above the paper release.



The printer was carefully inspected both mechanically and electrically before shipment and should be free of mars or scratches and in perfect operating condition when received. The printer should be inspected when received for physical damage incurred in transit and an inventory made of the supplied accessories listed in Table 1 on page 4. During the inventory, note any damaged accessories.

The following procedure will confirm the printer is operating properly.

NOTE

This procedure is performed after the printer is installed and the paper loaded (see page 8).

If the printer is damaged or an electrical deficiency is indicated, file a claim with the carrier or refer to the warranty information on the inside front cover.

SET:  POWER ON

 RUN

 FLOATING

PRESS:    or 

SET:  PROGRAM

PRESS:      
     
     
    
    
   

INITIAL INSPECTION

NOTE

The expressions DEPRESS or RELEASE refer to printer keys.

DEPRESS:  **ON**

SET:  **RUN**

PRESS:  **GO TO () ()**  **0**  **0** or  **END**

DEPRESS:  **x**  **y**  **z**

PRESS:  **CONTINUE**

0 - 0000000000 00
0 - 0000000000 00
0 - 0000000000 00
1 - 1111111111 00
1 - 1111111111 00
1 - 1111111111 00
2 - 2222222222 00
2 - 2222222222 00
2 - 2222222222 00
3 - 3333333333 00
4 - 4444444444 00
7 - 7777777777 . 04
8 - 8888888888 00
8 - 8888888888 00
8 - 8888888888 00
9 - 9999999999 00
9 - 9999999999 00
9 - 9999999999 00

INITIAL INSPECTION

11

The program will continue until STOP is pressed.

PRESS:



PRESS:



PRESS:



PRESS:



PRESS:



PRESS:



RELEASE: **y** and **z**

INITIAL INSPECTION

PRESS:

PRINT



RELEASE:

x

DEPRESS:

y

PRESS:

STOP

PRESS:

PRINT



RELEASE:

y

DEPRESS:

z

PRESS:

STOP

PRESS:

PRINT



DEPRESS:

z

DEPRESS:

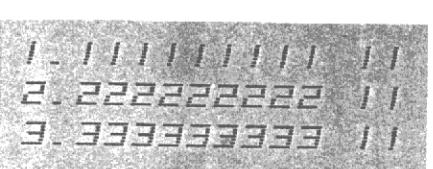
y

PRESS:

STOP

PRESS:

PRINT



INITIAL INSPECTION

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PRESS:    or 

DEPRESS: 

0	0	- - - - -	20
0	1	- - - - -	01
0	2	- - - - -	00
0	3	- - - - -	27
0	4	- - - - -	11
0	5	- - - - -	35
0	6	- - - - -	40
0	7	- - - - -	13
0	8	- - - - -	25
0	9	- - - - -	27
0	3	- - - - -	34
0	6	- - - - -	25
0	0	- - - - -	27
0	4	- - - - -	27
1	0	- - - - -	45
1	1	- - - - -	45
1	2	- - - - -	13
1	3	- - - - -	33
1	4	- - - - -	25
1	5	- - - - -	27
1	6	- - - - -	27
1	7	- - - - -	45
1	8	- - - - -	45
1	9	- - - - -	26
1	3	- - - - -	01
1	6	- - - - -	53
1	0	- - - - -	01
1	4	- - - - -	02
2	0	- - - - -	44
2	1	- - - - -	00
2	2	- - - - -	00
2	3	- - - - -	46

KEYBOARD

With the exception of the LIST key all the keys of the printer's keyboard are the press-to-hold (ON), press-again-to-release (OFF) type. When pressed the first time the key will remain depressed, and the switch is ON; when pressed again the switch will return to its extended position and the switch is OFF.

ON

Applies power to the printer provided the calculator's ON-OFF switch is on. Releasing this switch will remove power from the printer. When the calculator is turned OFF, power is automatically removed from the printer.

x

y

z

Selects the calculator register (s) to be printed. Any or all of these registers may be selected. To print the register(s), press the PRINT key on the calculator or enter a PRINT instruction in a program.

NOTE

Successive print instructions (programmed or manual) will result in the first instruction causing the registers selected to be printed, and the remaining print instructions causing the printer to space. If a duplication of register printing is desired, insert any calculator instruction (manual or programmed) between the print instructions.

LIST

Will cause the printing of the contents of the calculator's memory. The printing will begin at the program counter's location and will continue until an END statement is encountered in the program or until STOP on the keyboard of the calculator is pressed. In order to print the END statement at the end of a list operation one or more of the X, Y or Z pushbuttons must be depressed. If one or more are not depressed, listing will occur normally except that the END statement will not be listed at the end of the program.

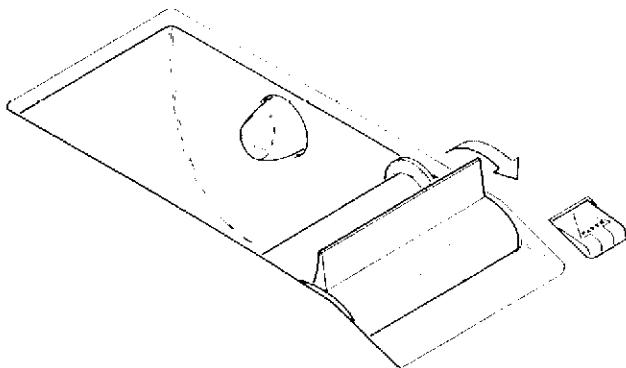
NOTE

The LIST switch is deactivated during calculator program execution.

The Paper Load Key will cause the printer to space.



The Paper Release will remove tension on the printer paper so the paper may be removed from the print mechanism. To release the tension pull the Paper Release toward the front of the printer until a click is heard.

PAPER RELEASE

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