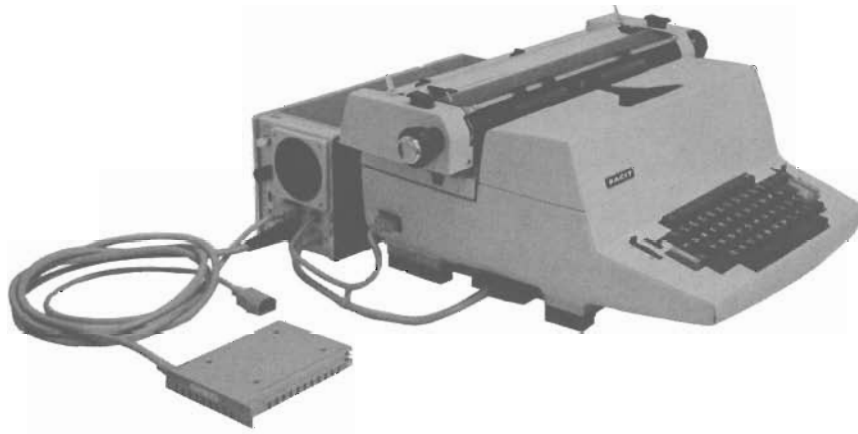


# OUTPUT TYPEWRITER PERIPHERAL MANUAL



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**For research and education purposes only.**

This manual contains installation and operator maintenance instructions for the -hp- Model 9861A Output Typewriter. Since a peripheral control block (ROM block) is required to enable your calculator to control the output typewriter, specific operating information (typewriter commands, electrical inspection procedure, etc.) is contained in the peripheral control block operating manual.

## INTRODUCTION

The accessories supplied with each Model 9861A Output Typewriter are listed in Table 1.

## SUPPLIED ACCESSORIES

Table 1. Supplied Accessories

Description	Quantity	-hp- Part Number
Typewriter Interface	1	11201A
Facit Model 3841-4 Output Typewriter	1	0950-1360
Peripheral Manual	2	09861-90002
ac Power Cord	1	8120-1378
ac Power Cord	1	8120-1766
Spare Fuses: all 250V, Normal blo, 1¼ x ¼ dia		
4A	1	2110-0055
2A	1	2110-0002
I/O Cable Assembly	1	11210-61603

The 9861A consists of two units, a Hewlett-Packard Model 11201A Typewriter Interface and a specially modified Facit Model 3841-4 Output Typewriter.

## PHYSICAL DESCRIPTION

An appropriate control block (ROM block) must be plugged into your calculator before the Model 9861A can be used in your 9800 System. This block provides the necessary 'hardware' to enable your calculator to control the Model 9861A.

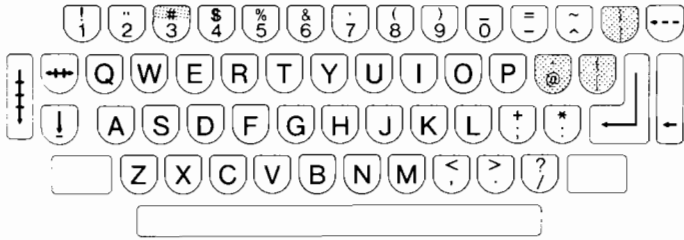
## THE ROM BLOCK

Any -hp- Sales and Service Office can assist you in determining which control block is correct for your 9800 Series calculator.

KEYBOARD  
OPTIONS

The following table lists the keyboard options available for the Model 9861A Output Typewriter.

Table 2. 9861A Keyboard Options



KEYBOARD OPTIONS			
Standard ECMA 23 Code II			
Option 004 Germany			
Option 005 France			
Option 006 Italy			
Option 007 Finland - Sweden			
Option 008 Norway - Denmark			
Option 009 United Kingdom			

SERVICE  
CONTRACTS

To operate without trouble and turn out perfect work, the 9861A should be given regular service.

Service contracts are available for your 9861A, which will provide the regularly required service. For further information contact any HP Sales Office.

INITIAL  
INSPECTION

The 9861A Output Typewriter was carefully inspected both mechanically and electrically prior to being shipped to you. It should, therefore, be free of mars or scratches when received. To ensure this, you should carefully inspect your typewriter and interface for physical damage upon receipt. In addition, check that the accessories listed in Table 1 are present. If there is physical damage, file a claim with the carrier and notify HP (address of the Sales and Service offices are provided at the rear of this manual.)

Before verifying the electrical performance of the Model 9861A, it must be assembled and connected to your calculator. However, it is not recommended that you do this yourself, since an initial installation and service call is provided, free of charge, after you have notified -hp- that you have received your Model 9861A. A list of -hp- Sales and Service Offices is at the back of this manual.

**MODEL 11201A TYPEWRITER INTERFACE:**

**LINE VOLTAGE:** Nominally 120 and 240 volts ac and 'low-line' levels of each voltage. Dual switching enables any of the following four line voltages to be selected: 240 or 220, 120 or 100 volts. At each switch setting, the interface will operate with the line voltages at levels of within +5% -10% of the selected voltages. The operating range is, therefore, from 90 to 126 volts and from 198 to 252 volts.

**LINE FREQUENCY:** Nominally 50 Hertz and 60 Hertz; the interface will operate within the range of 48 to 66 Hertz.

**POWER CONSUMPTION:** The typewriter and interface together will consume 365 voltamps maximum.

**FACIT MODEL 3841-4 OUTPUT TYPEWRITER:**

**LINE VOLTAGE AND LINE FREQUENCY:** The following table lists the line voltage and line frequency options available for the Model 9861A.

**Table 3. 9861A Line Frequency and Voltage Options**

OPTION	LINE	
	VOLTAGE	FREQUENCY
Standard	115	60 Hertz
001	220	50 Hertz
002	220	60 Hertz
003	115	50 Hertz

**POWER REQUIREMENTS**

**POWER  
REQUIREMENTS**  
(continued)**CAUTION**

ALTHOUGH THE TYPEWRITER POWER IS DRAWN FROM THE INTERFACE, IT IS NOT MODIFIED BY THE INTERFACE. THE POWER PASSED TO THE TYPEWRITER IS THE SAME AS THE POWER AVAILABLE AT THE WALL RECEPTACLE. DAMAGE TO THE TYPEWRITER WILL RESULT IF THE LINE VOLTAGE AND FREQUENCY REQUIREMENTS OF THE TYPEWRITER DIFFER FROM THE LINE POWER THAT IS AVAILABLE.

**POWER CONSUMPTION:** The typewriter will consume 128 voltamps maximum.

**GROUNDING  
REQUIREMENTS**

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

**FUSES**

The interface has one fuse located on the front panel. The interface should contain a 4-amp fuse for 100/120V operation or a 2-amp fuse for 220/240V operation. Spare fuses, a 2-amp and a 4-amp are shipped with each interface.

**WARNING**

BEFORE CHANGING THE FUSE, ENSURE THAT THE INTERFACE IS DISCONNECTED FROM ANY POWER SOURCE.

To change the fuse, press on the fuse-holder and, at the same time, twist it in the direction of the arrow on the fuse-holder; withdraw the fuse and holder from the socket. Remove the fuse from the holder and substitute the replacement fuse. To reinstall the fuse and holder in the interface, reverse the removal procedure.

We recommend that you contact your nearest Facit Service Representative to install the 9861A in your calculator system. A list of locations of the Facit Service Representatives is included in the typewriter shipping box.

## INSTALLATION

**CAUTION**  
 SYSTEM DAMAGE CAN BE CAUSED BY AN  
 IMPROPERLY INSTALLED 9861A.

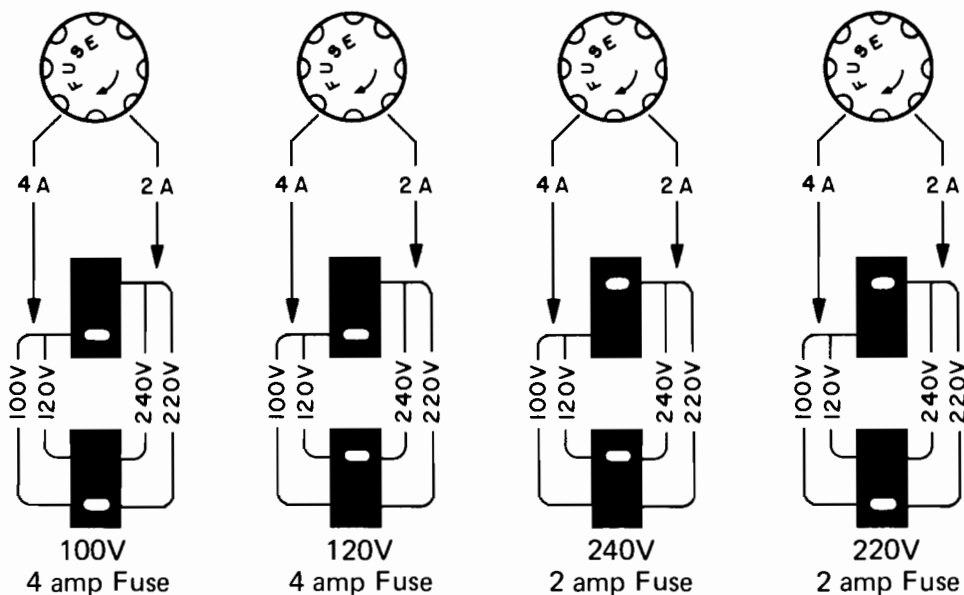


Figure 1. Setting the Line Voltage Switches

1. With the interface disconnected from any ac power source, verify that the correct fuse is installed (see Figure 1) for the line voltage in your area (refer to the preceding paragraph for information regarding the fuse).
2. Two slide switches, located on the interface panel, must be set for the ac line voltage to be used. The switches are set by inserting a screwdriver into the slot on the switch and then sliding the switch so that the white slot is opposite the line which indicates the required voltage.
  - a. Set the upper of the two switches to the upper position if your line voltage is either 220 or 240 volts. If your line voltage is either 100 or 120 volts, set the switch to the lower position.
  - b. Set the lower of the two switches to the upper position if your line voltage is either 120 or 240 volts. If your line voltage is either 100 or 220 volts, set the switch to the lower position.



INSTALLATION  
(continued)

## NOTE

This switch should be set to the lower position (100/220 volts) only if the line voltage in your area proves to be too low; that is, if the interface cannot operate properly when the switch is set to the upper position.

3. Ensure that the interface, typewriter and calculator are switched OFF.
4. Set the typewriter into place no farther than eight feet from the calculator and remove the packaging material from the inside of the typewriter.
5. Set the interface into place no farther than twelve inches behind the typewriter, with the panel of the interface on a plane with the left side of the typewriter.
6. Connect the female ac power cord on the interface panel into the ac receptacle of the typewriter.

## CAUTION

ALTHOUGH THE TYPEWRITER POWER IS DRAWN FROM THE INTERFACE, IT IS NOT MODIFIED BY THE INTERFACE. THE POWER CONTAINED ON THIS POWER CORD IS THE SAME AS THE POWER AT YOUR WALL RECEPTACLE. DAMAGE TO THE TYPEWRITER WILL RESULT IF THE LINE VOLTAGE AND FREQUENCY REQUIREMENTS OF THE TYPEWRITER DIFFER FROM THE LINE POWER THAT IS AVAILABLE.

7. Connect the signal connector on the interface panel to the connector on the typewriter. The typewriter connector is located on the left side of the typewriter near the bottom center of the unit. Once the two connectors are mated, swing the two wire clips (one on each side of the typewriter connector) into the notches on the edges of the interface connector. These catches will ensure that typewriter vibration will not dislodge the interface connector.
8. Connect the I/O cable assembly to the panel of the interface. This is done by aligning the keys of the I/O cable connector with the keyways on the interface's connector. Once this is done, rotate the knurled barrel of the I/O connector clockwise. This will draw the two connectors together, into full contact.

9. Connect the ac power cord into the interface receptacle and also into the convenience outlet on your calculator.

### CAUTION

NO MORE THAN 610 VOLTAMPS, TOTAL MAY BE DRAWN FROM THE THREE CONVENIENCE OUTLETS ON THE REAR OF THE CALCULATOR. IF THE ADDITION OF THE 9861A CAUSES THIS VALUE TO BE EXCEEDED, USE THE OTHER SUPPLIED AC CABLE AND CONNECT THE INTERFACE TO A WALL RECEPTACLE.

At this time, the 9861A is connected. The 9861A is connected to your calculator system by inserting the loose end of the I/O cable into any of the I/O connectors of your calculator.

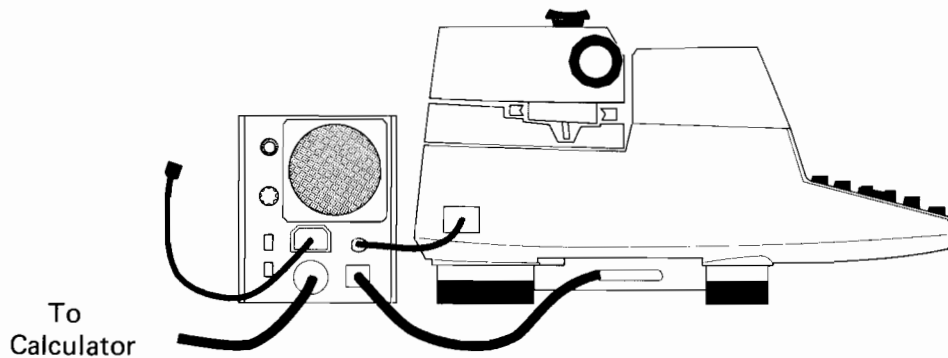


Figure 2. A Correctly Installed 9861A

The interface is switched on by pressing the button on the panel. When power is applied, the button will light. Power is removed by pressing the button again. When power is applied to the interface (the button glows) power is also available for the typewriter. If the typewriter is always switched on, power to both the typewriter and interface can be removed by switching the interface off.

### TURNING THE INTERFACE ON

Although major service and periodic maintenance must be left to specially trained service personnel, there are two things the operator should do.

Both the typewriter and interface cabinets may be cleaned with a soft cloth, dampened in clean water or in water containing a soft soap or mild detergent. Do not use an excessively wet cloth or allow water to penetrate inside the typewriter or interface.

In a normal office environment, this filter will require cleaning every six months. Clean the filter by washing it in a warm detergent solution. The filter, located on the panel of the interface, is removed by grasping the center of the filter and pulling it out of its frame. After cleaning the filter, allow it to dry and reinstall.

#### NOTE

Always turn the interface off when removing the filter material. Dust loosened from the filter material could be drawn into the interface by the fan.

**CLEANING  
THE 9861A**

**CLEANING THE  
INTERFACE  
FAN FILTER**



MODEL 9861A OUTPUT TYPEWRITER



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