

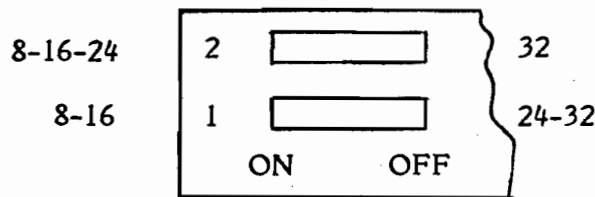
PRELIMINARY MANUAL
EM-25/31 INSTALLATION PROCEDURE

1. Disconnect power from the calculator.
2. Remove all Roms from the the front of the calculator.
3. To remove the back cover, remove the two (2) screws from the rear of the calculator.
4. Tilt the back of the cover upward approximately 2" "hinging" behind the keyboard and lift cover away from keyboard.
5. If you are installing the memory into a 9825, remove the spindle from the paper basket and lay to one side. If you are installing the memory into a 9831, locate the spindle provided.
6. Viewing the calculator from the front, locate the circuit board on the left side attached to the hinges. The board is attached via two (2) nylon standoffs and two (2) hinges to the 9825.
7. Remove the edge connector from the spacer board.
8. Using the spindle from step 5, press over the nylon standoffs while lifting slightly on the edge of the board, thereby freeing the board.
9. To remove the spacer from the hinge, rotate to the left 90° and slide to the front.
10. Remove the edge connector from the next board.
11. On the exposed memory board, locate the three (3) standoffs securing the board to the next lower circuit board. Adjacent to each standoff is a hole. Insert one (1) standoff (contained in plastic bag) into each hole.
12. To remove the circuit board from the hinge, rotate the board to the left and slide to the front.
13. To remove the keyboard, loosen the two (2) screws at the rear of the keyboard where it connects to the base assembly. Do not remove the screws.
14. Grasp the sides and bottom of the calculator with one thumb over the edge behind the printer and the other thumb over the tape cartridge transport.
15. Press down while pulling forward with the thumbs. Resistance will be felt, but the keyboard will move forward approximately one inch (1").
16. Gently lift the keyboard one inch (1") vertically and move three inches (3") forward and set down.



17. Viewing the 9825 from the rear, remove the ribbon connector from the tape transport at the rear of the keyboard. The tape transport is on the right side and the ribbon connector is vertical on the left side of the transport.
18. Loosen the three (3) nylon standoffs on the exposed circuit board by pressing the spindle over each standoff while lifting slightly on the edge of the circuit board. One standoff is just in front of where the transport ribbon attaches to the circuit board and the other two are at the corners.
19. Tilt the board to the left but do not remove.
20. Locate the small blue dip switch on the left front quarter of the exposed circuit board. Note the location of connector P3-1 on the left front corner of the circuit board.
21. Set the dip switch to the system configurations. See Table 1.

TABLE 1



Present Configuration	Adding	Switch 1	Position 2
8K Bytes	8K Bytes	ON	ON
	16K Bytes	OFF	ON
16K Bytes	8K Bytes	OFF	ON
	16K Bytes (With ROMs)	OFF	ON
	16K Bytes (No ROMs)	OFF	OFF

22. Lower the tilted board gently and lightly press over the three (3) standoffs to secure the board.
23. Reattach the ribbon cable to the tape transport, insuring that the red stripe is on top.
24. Make sure that the P3-1 connector is firmly attached to the bottom most circuit board. The P3-1 connector is in the front left-hand corner when viewing the calculator from the front.
25. Gently lift the keyboard vertically 2" and move forward.
26. Lower the front edge of the keyboard until the guides under the front of the keyboard are inside the front of the base.
27. Insure that the ribbon cables are tucked under the keyboard.

28. Lower the rear of the keyboard and make sure that the gap between the keyboard and the base is approximately 1/8" all the way around. Insure there is no large space between the base and the keyboard.
29. The "fingers" on the rear outside edges of the keyboard should be within 1/4" of the screws when the keyboard is properly in place.
30. Start the "fingers" on the keyboard under the washers of the screws by pushing gently rearward on the keyboard. Do not attempt to completely engage the fingers around the screws.
31. Grasp the front of the calculator with the fingers of each hand behind the Rom slots and the thumbs on the keyboard. Press firmly forward on the keyboard while pulling on the base. The keyboard will lock into place.
32. Tighten the two (2) screws on either side of the keyboard into place.
33. Set the HP jumper to the system configuration (see Table 2). Viewing the HP board with the hinges on the left, the jumper is located in front of the nylon standoff by the edge connector.
34. Place HP board into the hinge by holding the board vertically and sliding to the rear. Lower board gently and press lightly to engage nylon standoffs.
35. Reconnect the ribbon cable to the HP board. Make sure that the red stripe is to the rear.
36. Set the Infotek memory switch to the system configuration (see Table 2).
37. Place the Infotek memory on the standoffs, and press lightly to engage.
38. Connect the ribbon cable to the Infotek memory board. Make sure that the red stripe is to the rear.
39. To install the top cover, place the front end of the cover behind the keyboard then lower the rear.
40. Connect power.
41. Turn "on" calculator.
42. If "Lazy-T" does not appear in display go to Step 6.
43. List Execute. Available memory will correspond to Table 2.
44. If "Lazy-T" does not appear in display or the memory available does not correspond to Table 2, perform the following:
 - A. Go to Step 1 and procede to check all connectors to insure proper connections have been made. Particular attention should be paid to the P3-1 connector discussed in Step 24.
 - B. Insure that all switch and jumper positions are correct.

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45. Using the systems tape provided with the calculator, run the memory test. If memory fails go to Step 44.
46. Disconnect power.
47. Install rear screws.
48. If the calculator is a 9825, reinstall paper spindle in the paper basket.
49. Install ROMs.
50. Install power.
51. Turn "on" calculator.
52. Run system test.



TABLE 2

<u>HP MEMORY</u>	<u>PRES. CONFRG. OF JUMPER</u>	<u>ADD</u>	<u>CHANGE JUMPER TO</u>	<u>INFOTEK SWITCH</u>		<u>MEM. AVAIL.</u>
				1	2	
8K BYTES		8K		60-70	60-70	15,028
8K		16K		60-70	60-70	23,220
16K		8K		40-50	40-50	23,220
16K		16K (NO ROMS)		40-50	60-70	31,412
16K		16K (WITH ROMS)		40-50	40-50	23,220