CHAPTER 4 DISASSEMBLY/ASSEMBLY AND ADJUSTMENT

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Disassemble/Assemble

This section describes how to disassemble and assemble the machine. First, disassembling/assembling of the unit, next, disassembling of each unit are shown. To assemble each unit, follow in the reverse order of disassembling. Pay attention to the following cautions when disassembling and assembling the machine.

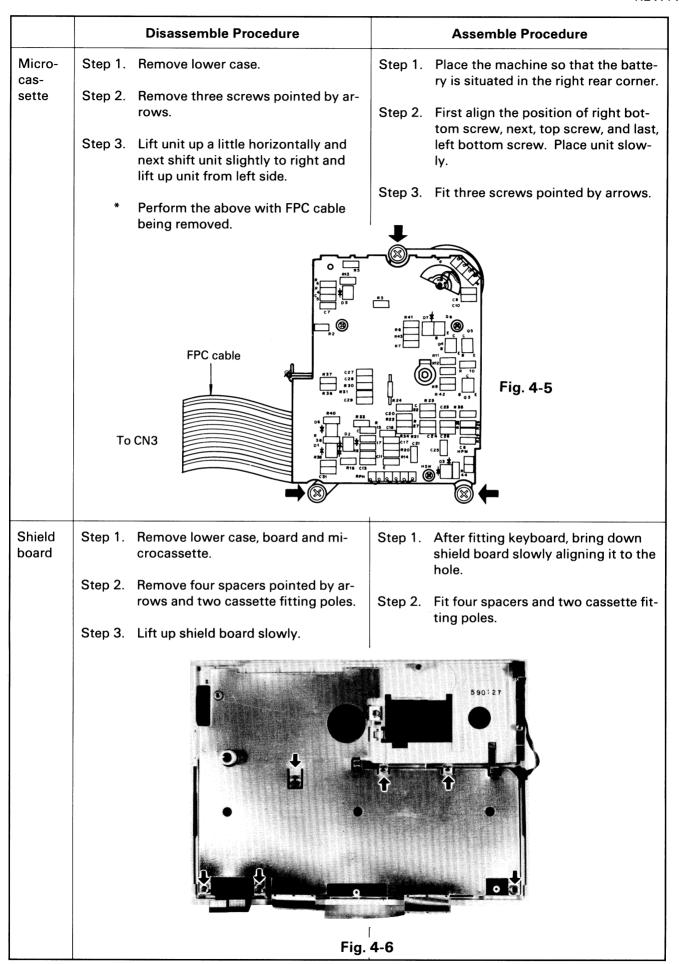
- (1) Confirm that power of the machine is off.
- (2) Disconnect options and cables that are connected to the machine.
- (3) Save programs if any that are stored in the RAM of main memory and the option onto cassette tapes, etc.
- (4) When repairing, storing, or shipping the MAPLE board, care must be used to prevent any shortcircuit on the board.
- (5) Avoid placing boards that incorporate ICs (MAPLE board, LCD panel board, option board, etc.) directly on a work stand. If it is not practical, place it with the component side below (so that static electricity will not affect it).
- (6) Pay attention so that cables may not be caught by case, fitting poles, etc.
- (7) When fitting a screw, pay attention to the length of the screw.
- (8) When fitting a component with screw lock being used, be sure to apply specified screw lock.
- (9) As for boards such as MAPLE board with battery on it, power off the battery line to protect the board from short-circuit or remove the battery and keep it. Should the board be left with the battery installed, it would be completely discharged, and the

4.1 Main Frame

(1) Unit Disassembly and Assembly

		Disassemble Procedure		Assemble Procedure
Lower	Step 1.	Turn the body upsidedown with the handle to your side.	Step 1.	Same as step 1 of the disassemble procedure.
(see Fig. 4-1.)	Step 2.	Remove the screw of the battery cover and remove the cover.	Step 2.	Remove switch panel and button of power switch.
	Step 3.	Pull out the connector of the battery and remove the battery.		Fit handle to lower case.
	Step 4.	Remove seven screws pointed by arrows.	Step 4.	Fit lower case from speaker volume knob side (left side).
			Step 5.	Fit seven screws pointed by arrows
	Step 5.	Lift up the lower cover from the right side.	Step 6.	Fit switch panel and power switch button.
			Step 7.	Fit battery and battery cover with screws.
				Battery cover
				- 19 200 AC 00 BC 80 20 CC 10 06 06 06 06 06 06 Me 基色 47 GC 10 10 10 10 10 10 10 10 10 10 10 10 10
	SW panel butto			
	panel			
	panel	CAUTION THE DAY AS ASSUME ONE ASSUMED AS THE PLAY PRESENT OF THE MAY	4-1	

		Disassemble Procedure		Assemble Procedure	
Lock button cover	Step 1. Remove keyboard cover. Step 2. Place the body as shown in Fig. 4-2, and remove screw pointed by arrow. Step 3. Lift up cover slowly from right side.		Perform the reverse procedure to disassemble.		
			1	Fig. 4-2	
Board		Remove lock button cover. Remove connector. Remove FPC cable from connector CN4.		Place PX-8 with lower case being removed. Put jack connector (4) into specified hole.	
	Sten 4	Remove cables from ①, ② and ③.	Step 3.	Place board slowly.	
	Step 5.		Step 4.	Fit three screws pointed by arrows.	
	rows.	Step 5.	_		
	Step 6.	Lift up board slowly from your side.	Step 6.	③. Remove lock button cover and insert the FPC cable to connector (CN4).	
		LZ:069	Step 7.	After fitting the cable to the connector ①, insert cable between case and boss paying attention not to damage the cable. (see Fig. 4-4.)	
		Fig. 4-4			

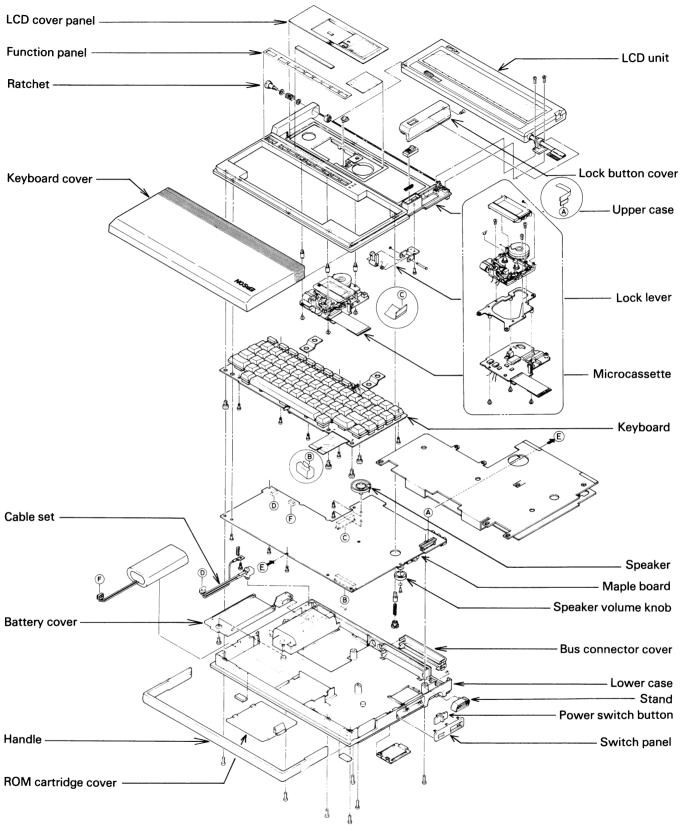


		Disassemble Procedure	Assemble Procedure
Key- board	Step 1.	Remove lower case, board and shield board.	Step 1. Turn over upper case.
	Step 2.		Step 2. Turn over keyboard unit and bring down slowly from space key side.
	Step 3.	Lift up keyboard unit slowly from microcassette side.	Step 3. Fit two screws pointed by arrows.
			590127
		Fig.	4-7
.CD ınit	Step 1.	Remove lock button cover and connector (CN4).	Step 1. Fit travel ratchet as shown in Fig.4-9.
	Step 2.	Lock LCD unit.	Ratchet spring seat
	Step 3.	Remove screws in the order ①, ② and ③.	
	Step 4.	Release LCD unit lock and lift up unit slowly from lock side with LCD face up.	Ratchet Ratchet Travel guide pin spring ratchet
			Step 2. Fix LCD unit ratchet to the body and set lead line ring bearing and lock LCD unit.
			Step 3. Tighten screws ①, ② and ③ as shown in Fig. 4-10 and 4-8. Lead line ring
			- %A TR - A 107 CG 32, 808 87

Disassemble Procedure **Assemble Procedure** Option Step 1. Remove expansion bus connector Step 1. Remove connector covers both of unit cover of option unit and bus conoption and main frame. nector cover of the main frame. Step 2. Fit option unit as shown in Fig. 4-14, and tighten screws tentatively Bus connector cover Main in the order of 1 to 4 on Fig. 4-13, frame and last, tighten them fully. Step 3. Fit connector first to option side and 000 00 second to main frame side. Stpe 4. Fit connector cover from main frame Option Bus connector cover unit side and next, option side. Option unit Fig. 4-11 Main frame 000 #727 Fig. 4-12 Fig. 4-14 Step 2. First remove option side connector and next main frame side connector. Step 3. Remove four screws pointed by arrows. 1 Fig. 4-13

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Exploded View of Main Frame



Overview

Fig. 4-15

4.2 Disassemble/Assemble of Each Unit

4.2.1 Keyboard

- (1) Normal (normal size)
 - Step 1. Remove key top using key top puller.
 - Step 2. Remove key switch.
- (2) SHIFT key (includes the same size keys)
 - Step 1. Remove key top of CTRL and A which is located on the top of specified key top.
 - Step 2. Insert a thin minus screw driver between key tops and lift up one end of corresponding key. Lock can be removed.
 - Step 3. Shift key and remove it from support bar.
- (3) SPACE key
 - Step 1. Remove key tops Z, X, C, V, B, N,which are located on the top of SPACE bar.
 - Step 2. Insert a thin minus screw driver between key tops and lift up one end of key. Lock can be removed.
 - Step 3. Remove key from support bar using a little screw driver.
- (4) SHIFT key
 - Step 4. Remove SHIFT key from switch cover using key top puller.

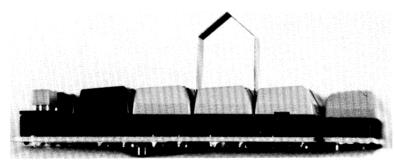


Fig. 4-16

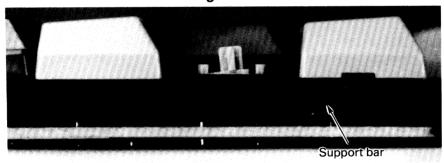


Fig. 4-17

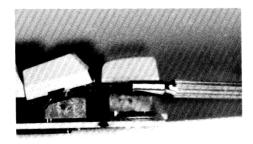
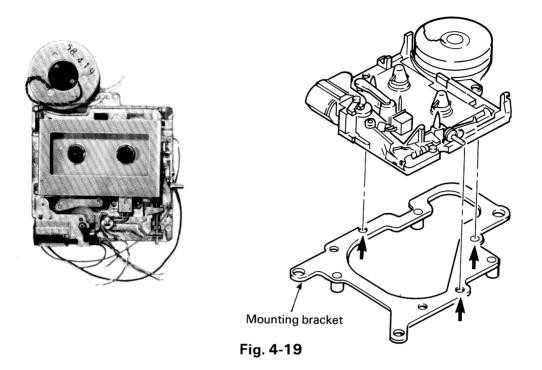


Fig. 4-18

4.2.2 Microcassette Mechanism

- Step 1. Remove board.
- Step 2. Remove microcassette mounting bracket by loosing three screws which are marked with arrows on Fig. 4-19.



(1) C wheel

- Step 1. Remove C support bracket by loosing two screws.
- Step 2. Remove M belt.
- Step 3. Lift up C wheel slowly.

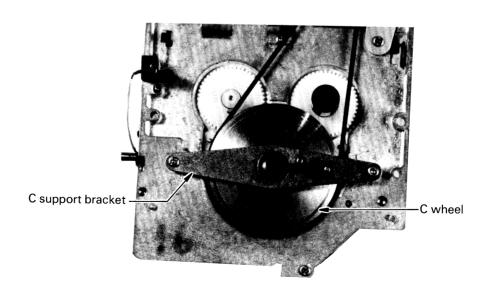


Fig. 4-20

- (2) M pulley
 - Step 1. Remove C support bracket.
 - Step 2. Remove FG york by loosing screws ① and ②.
 - Step 3. Lossen screws 3 and 4.
 - * Pay attention to two FG spacers.

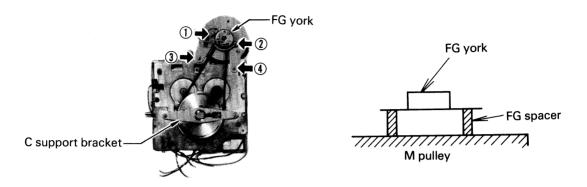


Fig. 4-21

(3) PE switch

Step 1. Remove one screw and PE switch.

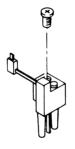


Fig. 4-22

(4) HP switch

- Step 1. Remove screw pointed by arrow.
- Step 2. Remove HP switch slowly.



Fig. 4-23

(5) HP motor

- Step 1. Remove HP switch
- Step 2. Remove screw ① and next ②.

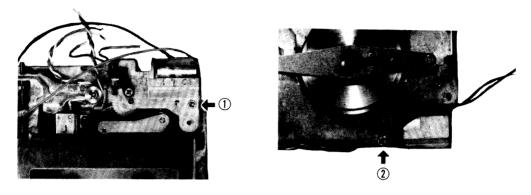


Fig. 4-24

(6) Pinch roller

- Step 1. Remove HP motor.
- Step 2. Remove E ring and lift up PR lever and spring.

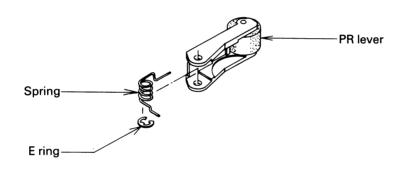
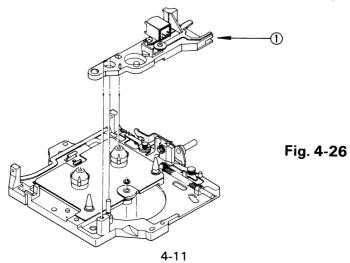


Fig. 4-25

(7) P lever (head part)

- Step 1. Remove HP motor and pinch roller.
- Step 2. Push E button spring by tweezers and remove lever from ① in a way like pulling out.



- (8) Pocket
 - Step 1. Remove pocket spring.
 - Step 2. Remove pocket pin.

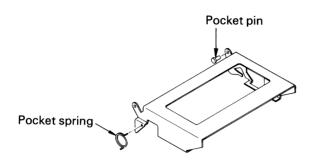


Fig. 4-27

Overview of Microcassette Mechanism

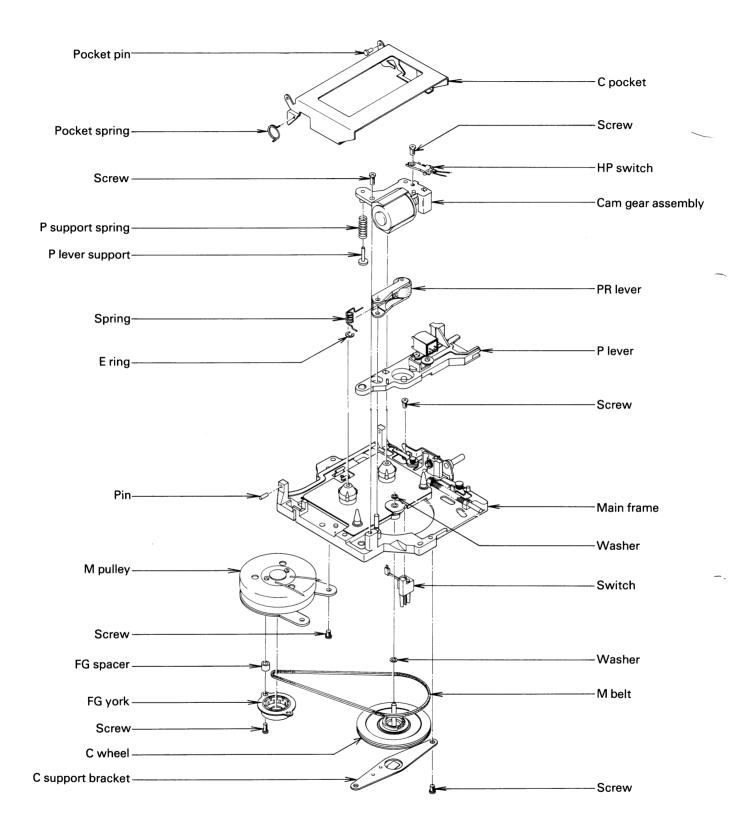


Fig. 4-28

4.2.3 LCD Unit

- Step 1. Remove LCD unit.
- Step 2. Remove cover panel. (not reusable)
- Step 3. Remove two screws pointed by arrows.

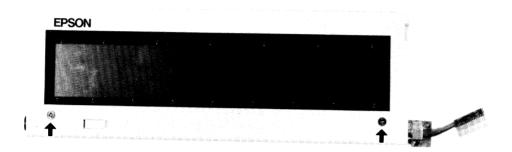


Fig. 4-29

- Step 4. Turn over unit and lift up unit slowly from screw side.
- Step 5. Remove four screws pointed by arrows and lift up board slowly.
 - * Pay attention to contrast button and cover glass.

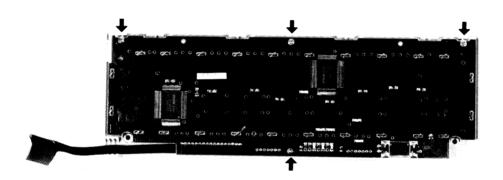


Fig. 4-30

Step 6. Move leg of fitting bracket.

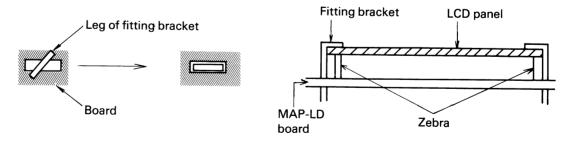


Fig. 4-31

- Step 7. Remove fitting bracket with LCD face up.
- Step 8. Remove LCD with zebra on it taking care for three pins.
- Step 9. Remove four zebras and zebra guide.

Overview of LCD Unit

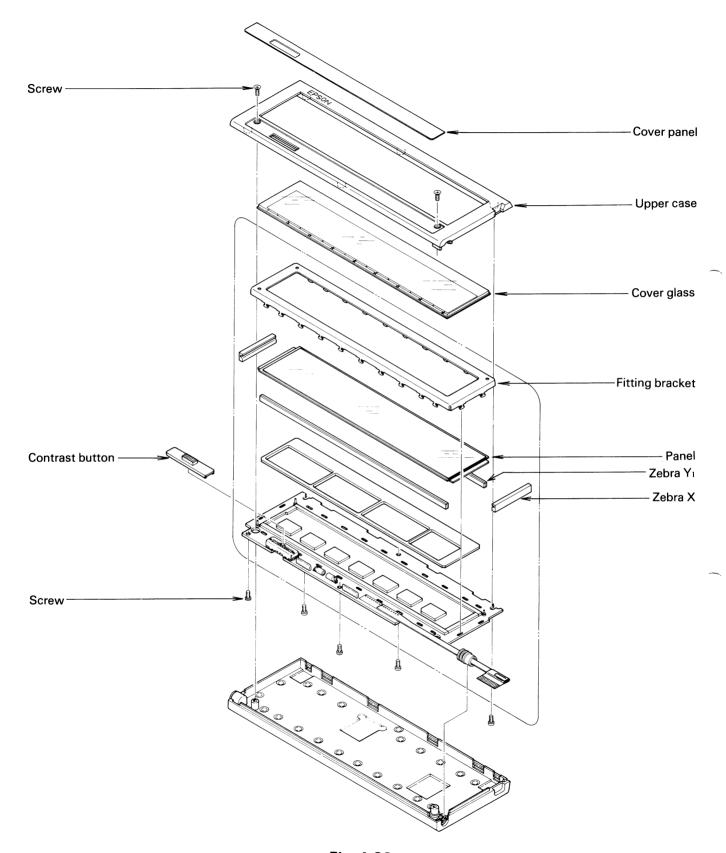


Fig. 4-32

4.3 Option Unit

- Step 1. Remove unit from the body.
- Step 2. Remove three screws pointed by arrows.

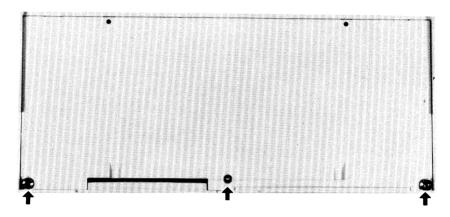


Fig. 4-33

- Step 3. Remove case cover from screw side.
- Step 4. Remove two screws pointed by arrows.

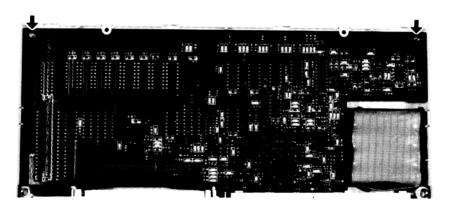
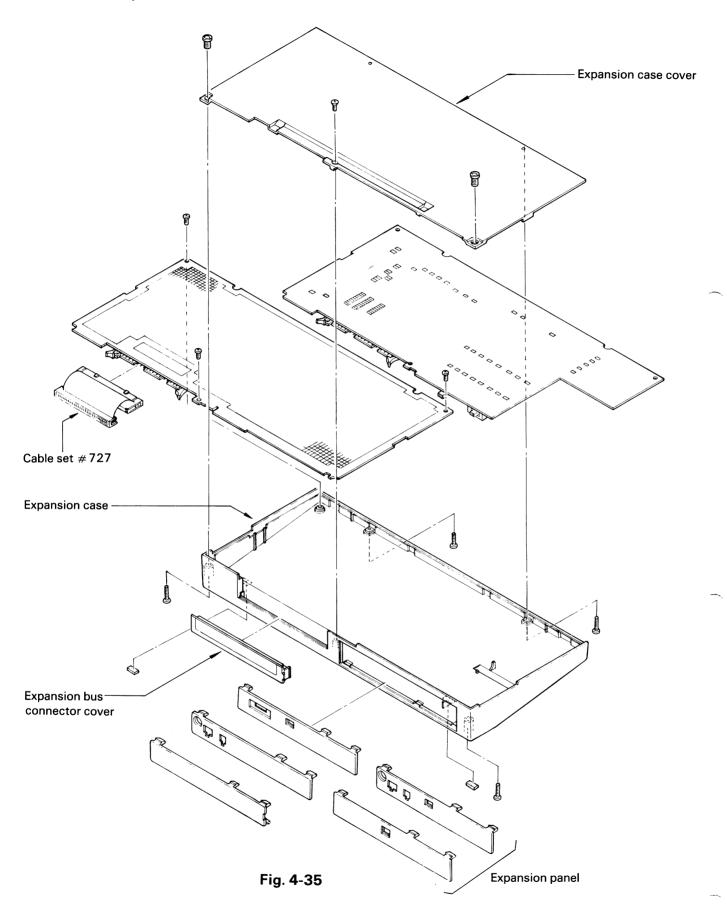


Fig. 4-34

Step 5. Lift up unit slowly from the opposite side of connector.

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Overview of Option Unit



4.4 Main Battery

Before replacing the main battery, the RAM data must be saved on an external storage device (cassette tape or floppy disk, etc.) for protection.

Main battery replacement procedure

Step 1. Reset the POWER switch OFF.

Step 2. Loosen the main battery cover set screw at the bottom of the computer and remove the cover.

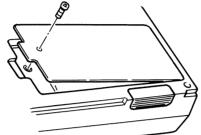


Fig. 4-36 Main Battery Cover Removal

Step 3. Make sure that the auxiliary switch is set.

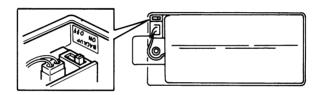


Fig. 4-37 Auxiliary Battery Switch

Step 4. Disconnect the battery connector and remove the battery.

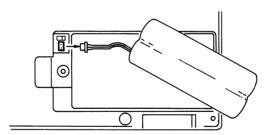


Fig. 4-38 Main Battery Removal

Step 5. Connect the new battery connector and put the battery in place and lay the lead wire as shown in Fig. 4-39 – lay the lead wire so that it is pushed against the case and the pressure prevents it from rising.

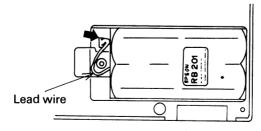


Fig. 4-39 Main Battery Installation

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- Step 6. Replace the battery cover care should be taken not to pinch the battery wires at the set screw.
- Step 7. Tighten the battery cover set screw.
- Step 8. Open the ROM capsule cover.

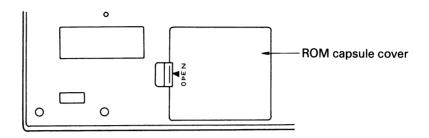


Fig. 4-40 ROM Capsule Cover

Step 9. Push once the INITIAL RESET switch located above the ROM cover.

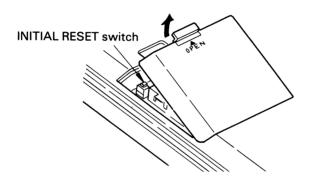


Fig. 4-41 Access to INITIAL RESET Switch

Step 10. Replace the ROM capsule cover.

After above procedures, change the battery by connecting the AC adaptor. Never discard the battery into water or in fire, nor disassemble.