ORDER NO. CPD2609248CE

Service Manual

Personal Computer

Model No. **FZ-56mk1 Series**

TOUGHBOOK

Disassembly and Assembly Procedure for RAM

DISCLAIMER

This repair information is provided to support maintenance and repair of Panasonic products. Repair procedures may involve disassembly of electrical and electronic components and should be performed only by persons with appropriate technical knowledge, skills, tools, and safety precautions.

Improper repair, modification, or handling of the product may result in personal injury, electric shock, fire, data loss, product malfunction, or other property damage.

Before starting any repair work, ensure that proper electrostatic discharge (ESD) protection measures are in place to prevent damage to electronic components.

Repair procedures, required parts, and product configurations may vary depending on the model, region, or product specification. The procedures and illustrations provided in this document are intended as general guidance and may not represent all product variations.

Panasonic does not assume responsibility for any injury, loss, damage, cost, expense, or product failure arising from repairs, modifications, or servicing performed by users or third parties. Any repair work is performed at the sole risk and responsibility of the person carrying out the repair.

Required Tool:
Refer to the section "Required tools" in the website of "Repair Information and Manual for FZ-56."

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RAM Module

<Only for model without Discrete GPU>

You can use the optional approved RAM module (FZ-BAZ24 series).

IMPORTANT

- **Use only the optional approved RAM module.**
- **RAM modules are extremely sensitive to static electricity (ESD). When inserting and removing RAM modules, do not touch the terminals or internal components, and do not allow foreign particles to enter the slots. Doing so may cause damage, fire, or electric shock.**
- **When adding RAM modules, although not required, it is recommended to use the RAM modules in the same size for optimal performance (e.g., 16 GB + 16 GB).**
- **Please closely follow the instructions for installing and removing RAM modules, not doing so may cause damage to the unit and/or to the RAM modules.**
- **The product warranty does not cover damages caused by improper installation or removal of the RAM modules.**

Inserting/Removing the RAM Module

1. **Turn off the computer and disconnect the AC adaptor.**
   - Do not use sleep or hibernation.

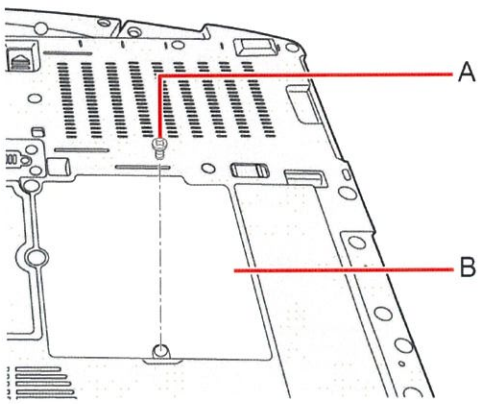
     Perform the following steps to turn off the computer.

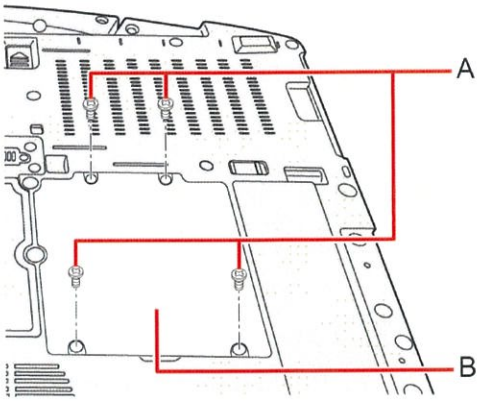
     1. Click (Start) - [Settings] - [System] - [Recovery].
     2. Click [Restart now] in "Advanced startup".
     3. Click [Restart now] on the "We'll restart your device so save your work" screen.
     4. Click [Turn off your PC].
2. **Turn your computer over and remove the battery pack.** (Replacing the Battery Pack)

   <When using second battery pack>
   - Remove the second battery pack. (Replacing the Battery Pack)

   Make sure no foreign objects are under the computer.
3. **Remove the screw (A) and the cover (B) on the bottom of the computer.**
   - The number of screws varies depending on the model.

   Use the PH 1 (PH #1) screwdriver.





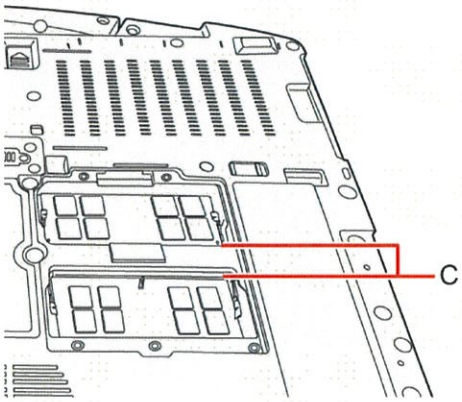
NOTE

- **Some illustrations are simplified to help your understanding and may look different from the actual unit.**

4. Insert/Remove the RAM module.

NOTE

- **This computer has 2 RAM module slots (C) inside of back cover.**

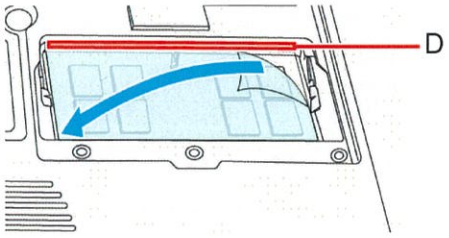


Removing the RAM Module

IMPORTANT

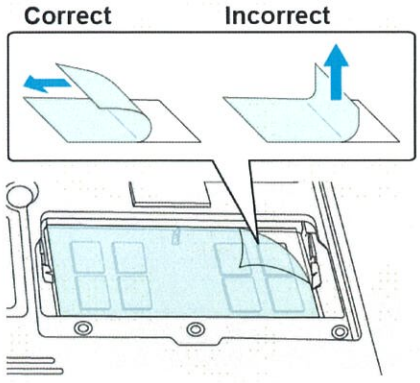
- **The removed RAM module is not guaranteed.**
- **Do not use metal tools. A device failure may occur.**

1. Remove the protective sheet from the connector side (D) in the direction of the arrow.

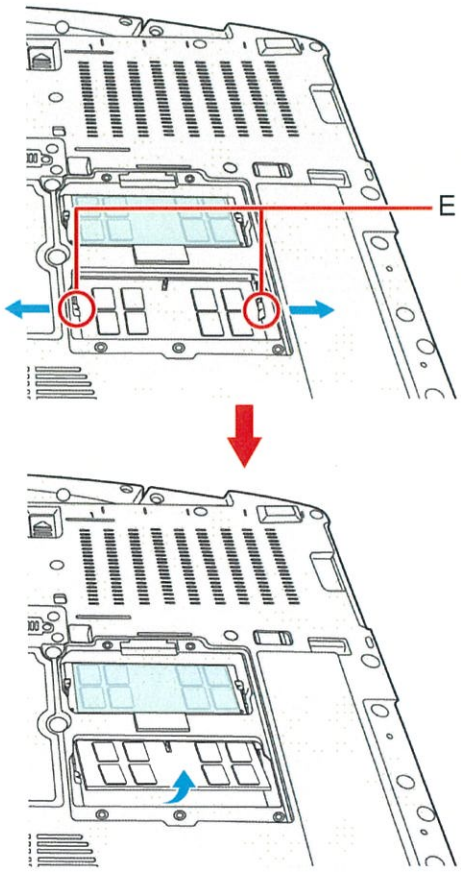


NOTE

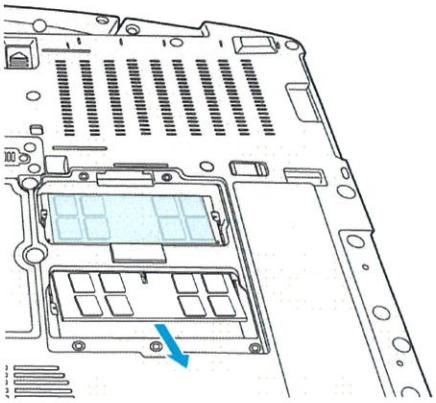
- **When removing the protective sheet, do not pull it up. Pull the protective sheet slowly parallel to the RAM module for removal. Pulling the protective sheet straight up may strain the RAM module, circuit board, etc., resulting in damage.**



2. Carefully release the right and left hooks (E) in the directions of the arrow simultaneously.
   The RAM module will rise.

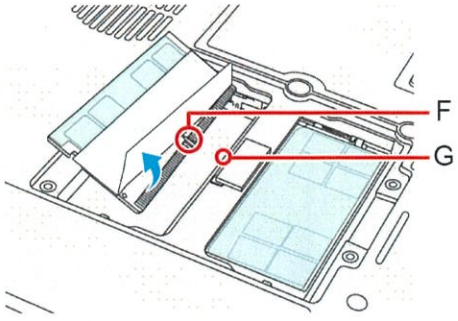


3. Carefully remove the RAM module from the slot.

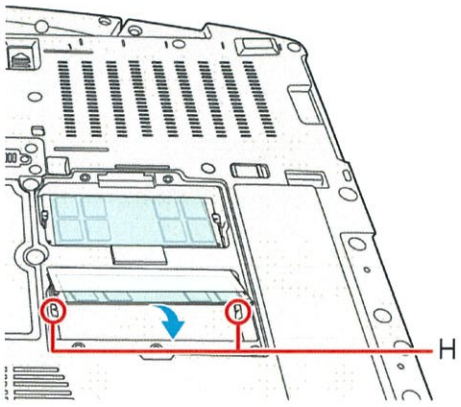


Inserting the RAM Module

1. While lifting the release paper on the RAM module, align the cutout (F) with the projection (G), then tilt the RAM module slightly and insert it into the slot.

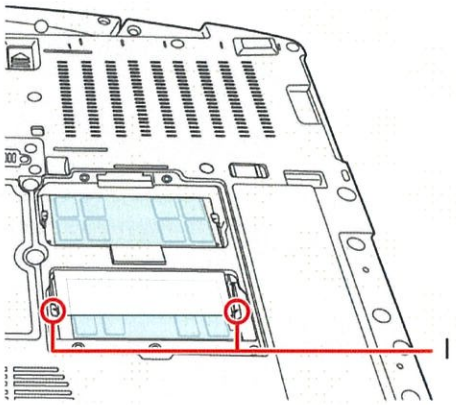


2. Press down the RAM module so that the right and left hooks (H) are locked.

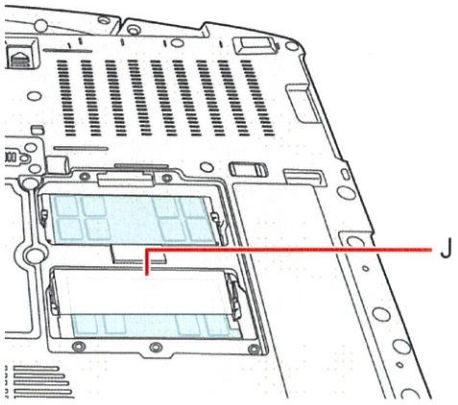


NOTE

- **Confirm that the RAM module is fixed with the hooks (I) as shown below.**



3. Remove the release paper (J) from the protective sheet affixed to the RAM module.
   Attach the protective sheet as it covers the connectors and RAM module.



5. **Set the cover, screw and the battery pack(s).**
   Use the PH 1 (PH #1) screwdriver.

Recommended tightening torque
0.45 N•m ± 0.05 N•m (4.5 kgf•cm ± 0.5 kgf•cm)

IMPORTANT

- **Set the cover and the battery pack(s) correctly so that they do not fall when you carry the computer.**

NOTE

- If it is hard to insert or to press down the RAM module, do not try forcibly but check the module's direction.
- Use an appropriate screwdriver so as not to strip the thread of the screw.
- If the RAM module is recognized correctly, the total size of the main unit memory and RAM module memory is displayed on the [Information Menu] of the Setup Utility.
  If the RAM module is not recognized, power off the computer and insert it again.