Design and specifications are subject to change without notice.
Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set’s components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the △ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

• The temperature of the soldering-iron tip should be about 270°C.
• Do not apply the tip more than three times to the same pattern.
• Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE △ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY Dont les numéros sont donnés dans ce manuel ou dans les suppéments publiés par SONY.
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History of the changes is shown as the “Revision History” at the end of this data.
CHAPTER 1.

BLOCK DIAGRAM

Difference from GRX:
1. CPU PowerCircuit (with PowerLimiter)
2. Gfx M7CL.32
3. Chipset 845MZ
4. Remove MS/JOG/PortRi
5. LCD 16.0 SXG
CHAPTER 2.

FRAME HARNESS DIAGRAM

From board to connector (direct connection)
Harness (connector at both end)
Harness (soldered at one end)
Connectors soldered on board and appearing on the panel
CHAPTER 3.
EXPLODED VIEWS AND PARTS LIST

NOTE:
• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
• The mechanical parts with no reference number in the exploded views are not supplied.
• When two or more parts are shown in parallel, use the part described first as the main part.
• The parts marked "$" are the High Value Modules.
• The parts marked "#" are the parts on which barcode label is attached.

【使用上の注意】
• 印は通常需要に無く、
• 部品番号のない部品は供給しません。
• 爆発図рисの場合は、上部配線部品をメイン部品として使用してください。
• 部品名の前に$印のついた部品は、High Value Moduleです。
• 部品名の前に#印のついた部品は、バーコードラベル貼付部品です。

The components identified by mark ∆ or dotted line with mark ∆ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ∆ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
3-2. LCD Section – Made by SH –

NOTE:
Set the DIP switch on the MBX-79 board (Main board) to match with the LCD that is used in this computer.

The upper position where ON indication is shown is the ON position. The lower position is the OFF position.

The components identified by mark \( \star \) or dotted line with mark \( \star \) are critical for safety. Replace only with part numbers specified.

Les composants identifiés par une marque \( \star \) ou une ligne pointillée avec une marque \( \star \) sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
4-1. Replacing the CPU

1. Removing the CPU

1. Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock release position.
2. Pull the CPU gently upward to lift it out of the CPU socket.

2. Installing the CPU

1. Align the triangle reference mark of the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
2. Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock position.

NOTE:

Rotate a flat-blade screwdriver to the lock position securely. If not, the operation of the CPU may become unstable.
List of PCG-GRV Series (As of October, 2002)

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## Revision History

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