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Masterfile Documentation

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0. SAFETY SECTION

FCC STATEMENT Federal Communications Commission (FCC) Statement

WARNING: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

"EINE LEICHT ZUGÄNGLICHE TRENN-VORRICHTUNG,MIT EINER KONTAKT-ÖFFNUNGSWEITE VON MINDESTENS 3mm IST IN DER UNMITTELBAREN NÄHE DER VERBRAUCHERANLAGE ANZUORDEN (4-POLIGE ABSCHALTUNG)."

"Maschinenlärminformationsverordnung 3. GSGV, 18.01.1991: Der "höchste" Schalldruckpegel beträt 70 db(A) oder weniger gemäß ISO 7779."

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△ SAFETY SUMMARY

0 Safety Summary

Read the following safety guidelines carefully and follow them when you conduct maintenance of the machine.

0.1.1 Before starting maintenance

- Maintenance of the machine must be done only by trained and qualified field engineers.
- Read and follow the safety guidelines and procedures in this manual and the related manuals.
- In this manual and on the machine, hazard warnings are provided to aid you in preventing or reducing the risk of death, personal injury, or product damage.

Understand and follow these hazard warnings fully.

• The hazard warnings which appear on the warning labels on the machine or in the manual have one of the following alert headings consisting of an alert symbol and a signal word, DANGER, WARNING, or CAUTION.

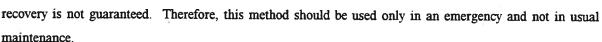
⚠ DANGER:	indicates an imminently hazardous situation which, if not avoided, will result in
	death or serious injury.
\triangle WARNING:	indicates a potentially hazardous situation which, if not avoided, can result in
	death or serious injury.
\triangle CAUTION:	indicates a hazardous situation which, if not avoided, will or can result in minor
	or moderate injury, or serious damage of product.
I	The alert symbol shown left precedes every signal word for hazard warnings, and
	appears in safety related descriptions in the manual.

The signal ward 'NOTICE' is used to present warnings which are not directly related to personal injury hazards.

- When warning labels become dirty or start peeling off, replace them.
- If any physical accident such as abnormal noise, smell, smoke or failing down occurs on the Disk Subsystem while running, immediately power off the Disk Subsystem by pulling one of the UNIT EMERGENCY POWER OFF switch on the Disk Subsystem.
- Keep in mind that the hazard warnings in this manual or on the machine cannot cover every possible case, as
 it is impossible to predict and evaluate all circumstances before hand.
 Be alert and use your common sense.

0.1.2 UNIT EMERGENCY POWER OFF switch

- For the purpose of powering off in an emergency, UNIT EMERGENCY POWER OFF switches (illustrated right) are provided on the Disk Controller.
- In using a UNIT EMERGENCY POWER OFF switch, first pull it up and then pull it toward you as illustrated.
- Pulling a UNIT EMERGENCY POWER OFF switch on the Disk Controller instantly shuts down, neglecting the systems power off sequence. Jobs in process are aborted and their integrity after



- UNIT EMERGENCY POWER OFF switch on the Disk Controller only provide partial power off capability, and AC input power present at primary circuit yet. Therefore, do not use the switches on these units unless powering off of the own unit is obviously enough and safe as an emergency measure.
- When pulled, a UNIT EMERGENCY POWER OFF switch locks itself to prevent further powering on and requires a trained and qualified field engineer for recovery.

0.1.3 During work

- For each procedure, follow the given sequence of steps.
- Use the spare parts, consumable and materials for maintenance which are specified in the manual; otherwise, personal injury or damage of the machine, as well as deterioration of the product's quality, may result.
- Use the special tools and instruments specified for the work in the manual or commercially available tools and instruments which fit the purpose.
- Use measurement instruments and powered tools which are properly calibrated or periodically inspected.
- Keep the maintenance area neat and tidy.
- Always put away parts, materials or tools when not in use.
- Wear an eye protector where liquid may splash or anything may fly about.
- When lifting anything heavy, hold it close to yourself and keep your back erect, to prevent injury to your back or spine.
 - When lifting anything, for the weight of which CAUTION is indicated, use a proper lifting tool or have somebody help you.
- Keep a soldering iron and its stand away from you to prevent accidental contact and burns.



- When using sharp objects or cutting tools, make sure that no part of your body lies in the path of the blade bit, or point.
- Before finishing you work, make sure that all parts removed during maintenance have been installed back in their original positions in the machine.

Make sure that no tool or foreign material is left in the machine

0.1.4 Prevention of electric shocks

Before starting work, make sure that, unless otherwise specifically instructed, there is no potential electric hazard in the maintenance area such as insufficient grounding or a wet floor.

- Before starting work, note where the emergency power-off switches are located and make sure you know how to operate them.
- Unless otherwise specifically instructed, cut off all power sources to the machine before stating maintenance.
 Just switching off the machine power supplies is usually not enough.
 - When power is fed from a wall or floor outlet, unplug the power supply cord, or turn off the switch on the power distribution panel or board.
 - Attach a notice on the panel or board prohibiting the use of the switch.
 - If the machine power has been already turned off, make sure yourself that these conditions are satisfied.
- Do not touch any uninsulated conductor or surface, where so instructed, which remains charged for a limited time after the external power supply to the machine is disconnected.
- When working on a machine which has a grounding terminal, make sure that the terminal is properly connected to the facility's ground.
- When working close to a hazardously energized part, do not work alone; work with another person who can immediately turn off the power in an emergency.
- Do not wear any metallic item such as a wrist watch with a metallic surface, or metallic accessories.

 If you wear eyeglasses with a metallic frame, take care not to let the frame touch an uninsulated surface.
- Make sure that your hands and arms are dry.
- Unless otherwise specifically instructed, use only one hand when it is necessary to work near an exposed live electric circuit.

This prevents the completion of the circuit through both hands even if you accidentally touch the circuit.

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⚠ SAFETY SUMMARY (Continued)

- Do not use a dental mirror near an exposed live electric circuit.
 The mirror surface is conductive and can become hazardous even if it is made of plastic.
- Unless otherwise specifically instructed, do not supply power to any subassembly such as a power supply unit
 or a motor while it is removed from the machine.

0.1.5 Preventing being caught by rotating or moving parts

- Tuck in your tie, scarf, shirt, or any other loose clothing so that it will not be caught by a rotating or moving part.
- Tie up long hair.
- Unless otherwise specifically instructed, do not supply power to any device with rotating or moving parts which are not properly covered.
- When instructed to supply power to any device with rotating or moving parts whose covers have been removed,
 work with another person who can immediately turn off the power in an emergency.

0.1.6 Procedures in an emergency

0.1.6.1 For electric shock

- Do not be panicked. Do not become another victim through contact with the injured person.
- First, shut off the electric current passing through the victim. Use the emergency power-off switch if there is one, or otherwise a normal power-off switch. If this cannot be done, push the victim away from the source of the electric current by using a nonconductive object such as a dry wooden stick.
- Then, call an ambulance.
- If the victim is unconscious, artificial respiration may be necessary. A proper method for performing artificial respiration or resuscitation should be learned beforehand.
- If the victim's heart is not beating, cardio-pulmonary resuscitation should be performed by a trained and qualified person.

0.1.6.2 For outbreak of fire

- First, shut off all the power from the machine using the emergency power-off switch if there is one, or otherwise the normal power-off switch.
- If the fire continues burning after the power is shut off, take suitable actions including the use of a fire extinguisher or a call for the fire department.

⚠ SAFETY SUMMARY (Continued)

0.2 A Hazard Warning Statements

The following are the hazard warning statements contained in this manual.

0.2.1 **A DANGER Statements**

■ The DKC and the basic DKU commonly have <u>Two Main Disconnect Devices</u>(Two Main Breaker CB101s for Dual Power Lines) so that AC Power of the unit can be supplied from the separate power distribution board with Two Power Supply Cords. Similarly, each of the 2nd DKU, the 3rd DKU, and the 4th DKU also has Two Main Disconnect Devices. (LOC05-10, LOC05-20)

0.2.2 \(\triangle \text{WARNING Statements}\)

• Do not touch the internal parts of AC power cable, AC Box, or Breaker Box. Line voltage is present even if the circuit breaker is off.

(INST03-550, INST03-2280)

• Be Careful with Electric Shock.

(INST03-1530, INST04-570, REP03-740, REP03-750, REP03-830, REP03-840, REP03-950, REP03-970, REP03-983, REP03-1150, REP03-1160, REP03-1240, REP03-1250, REP03-1310, REP03-1311)

0.2.3 **CAUTION Statements**

Mind Your Head.

(REP03-740, REP03-830, REP03-950, REP03-1150, REP03-1240)

Perform The Hz Conversion with care.

This Hz Conversion is concerned with Primary Circuit.

Perform this procedure before connecting the Disk Unit to the frame and the Power Cable Assy.

Be sure to mind your head during operation, or you might hit your head against the movable rack, which causes injury.

(INST03-570, INST03-660)