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1. Before use

This operation manual is written for technical staff experienced in the general operation of magnetic and Non-contact IC card reader/encoders. It is intended to describe the operation of NIDEC Sankyo 's model ICI3Q8-5293.

The terminal manufacturer shall be responsible to furnish an operation manual for end users.

2. Important Notice

Misuse or mishandling may shorten product life or cause the product to malfunction or operate improperly.

Please read this manual thoroughly to understand proper care and operation of the ICI3Q8-5293.

3. Attentions to this instruction manual and cautions

This equipment is packaged for use in North America. Use in other areas will necessitate substitution of the power cord. Please check with the terminal manufacturer for an appropriate cable if used outside North America.

- 1) A user may not repair this equipment. Please ask specialized service personnel for repair.
- 2) Repair or service by unqualified/untrained personnel may result in damage to the equipment or personal injury. Please refer all repair/service operations to a trained service technician.
- 3) Use of third party supplied spare parts, could result in damage to equipment or personal injury. Use only factory supplied spare parts in service of this equipment.
- 4) Ensure product is placed in a clean and stable location to prevent from falling or dropping. Please hold the product by the lower case when transporting or moving.

4. Scope

This instruction manual is to describe proper handling procedures of the magnetic and Non-contact IC card reader/encoder, model number ICI3Q8-5293.

5. Equipment summary and functions

Magnetic card reader/encoder, (hereafter referred to as MCRW), is a terminal with enclosure, and embedded power supply. It is configured to read and encode magnetic cards, working through an USB connection to the main computing system (hereafter referred to as HOST).

Firmware is installed in the onboard flash ROM (F-ROM) and downloadable by the HOST for ease of upgrade if required.

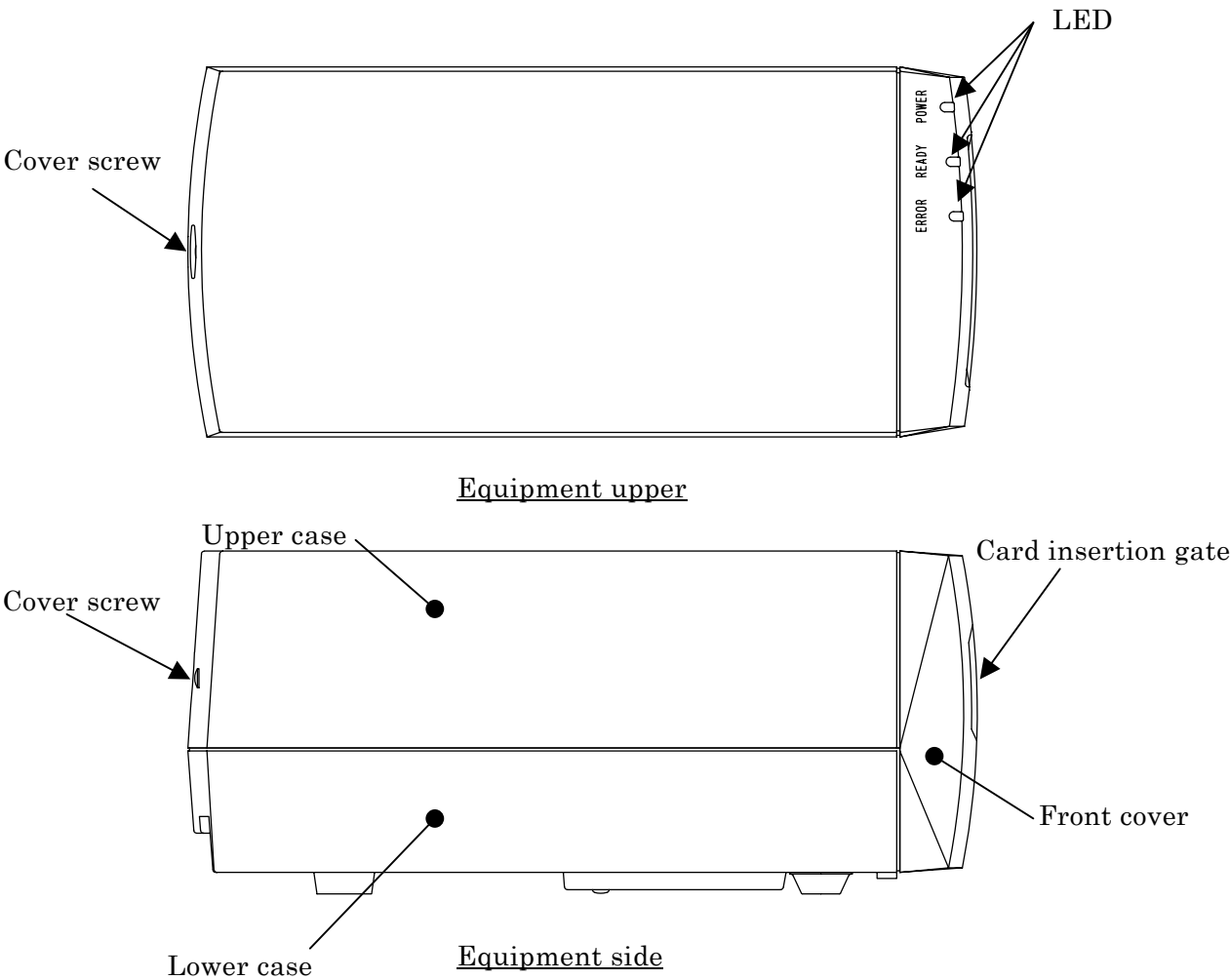


Fig. 1 Equipment appearance

LED

- POWER lamp: Lights when power is on.
- READY lamp: Lights or blinks as defined by operation and card processing status
- ERROR lamp: Lights or blinks when an error occurs.

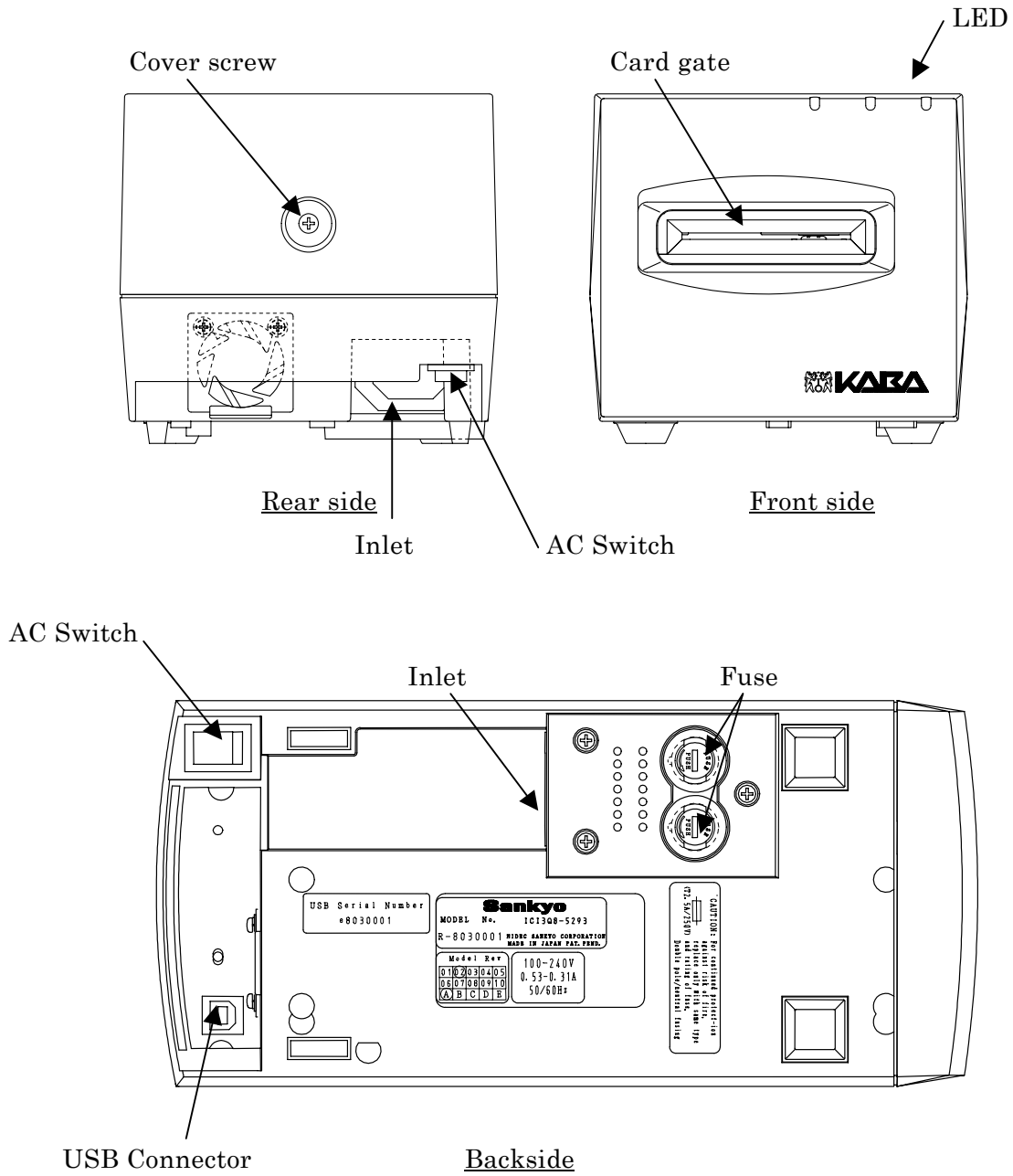
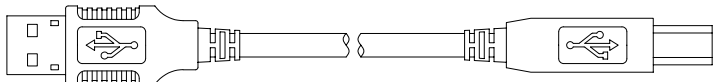


Fig. 2 Equipment appearance

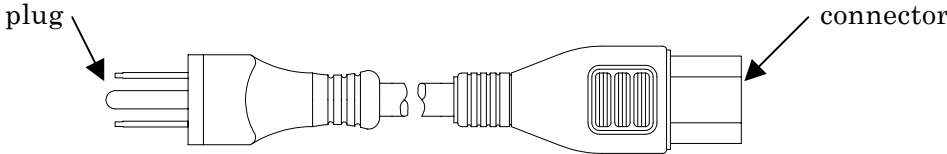
6. Unpacking

Included in the carton with the MCRW should be. Please inventory before proceeding.

- (1) MCRW 1 piece
- (2) Cables
 - USB cable (SBE425501) 1 piece (to connect with Host computer)
 - Power cable (SBE426401) 1 piece



USB cable



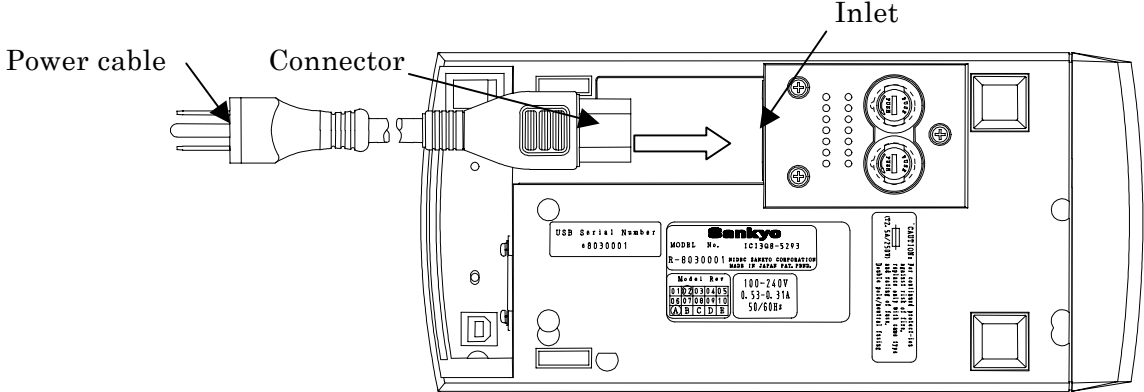
Power cable

7. Setup

7.1 How to connect

1) Power cable (Connector)

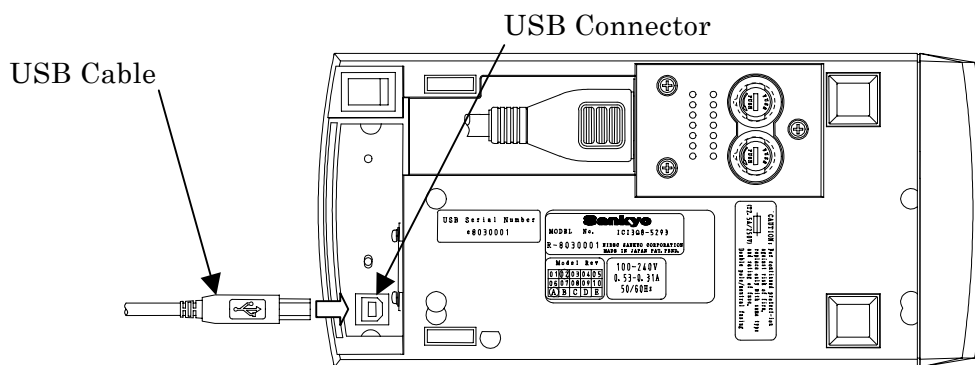
Ensure that the AC switch is off. See section 7.2.
 Ensure that power LED is not lit.
 Turn over the MCRW, and insert the power cable connector securely into the inlet as shown in the figure below.



2) USB Cable

Ensure that the AC switch is off.

Turn the MCRW over and insert the USB cable securely into the USB connector. Connect the other end to the appropriate USB port on the HOST.



3) Power cable (Plug)

Set the MCRW in an upright position and plug in the power cable securely to AC120V outlet (grounded triple pin).

Cautions

1. Do not exceed rated power supply input voltage
2. The power cable supplied with the MCRW is rated +125V 15A. Do not use underrated power cables or extension cords. Underrated power cables or extension cords could cause a risk of fire or overheating.
3. A grounded triple pin outlet should be used for power.
4. Please hold the plug portion when the power cable is inserted or removed.
Do not pull on the cable.

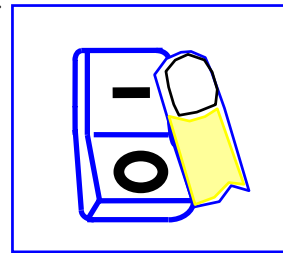
7.2 How to turn on and shut off the power supply:

1) How to turn on the power supply:

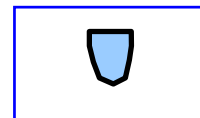
To power ON: press the "—" on the AC switch.

When the power is ON, the power LED on the front panel is lit.

Power on



Power lamp on



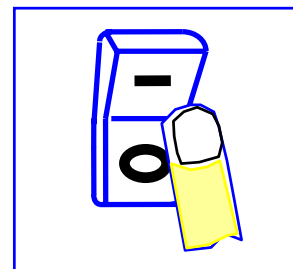
2) How to shut off the power supply:

To power OFF: press the "○" on the AC switch.

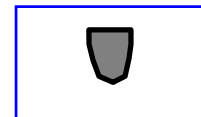
When the power is OFF, the power LED on the front panel is extinguished.

Please allow at least a 5-second interval before turning ON the power supply after the power has been shut OFF.

Power off



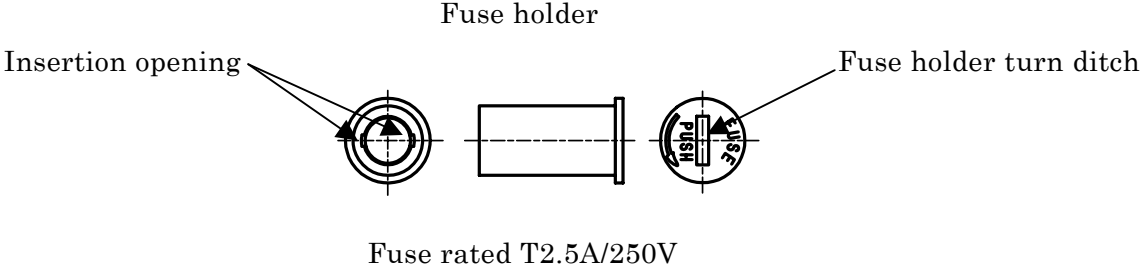
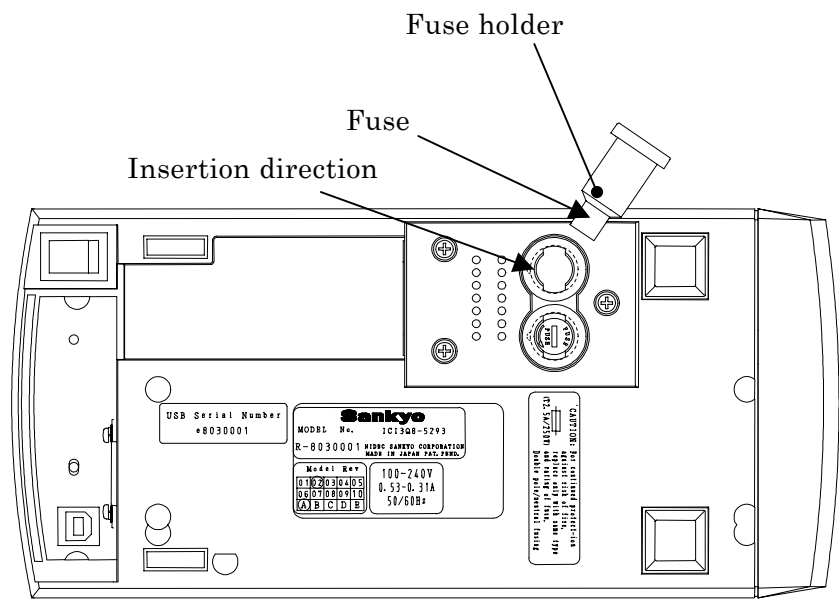
Power lamp off



7.3 How to replace a fuse:

Please contact a trained repair technician when you need to replace a fuse.


- 1) Switch off the AC and ensure that the power LED is extinguished.
- 2) Disconnect the power cable from the outlet.
- 3) Turn over the MCRW. Use a flathead screwdriver on the fuse holder and turn gently to release. Pull out the fuse holder.
- 4) Remove the old fuse and, insert a new fuse of the proper rating.
- 5) Replace the holder in the original position. Push and turn it to the right until it stops. Ensure that the holder is securely seated.

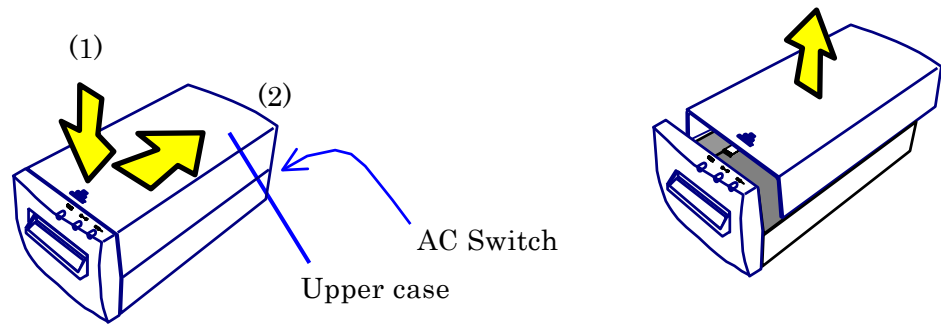


7.4 How to remove a jammed card:

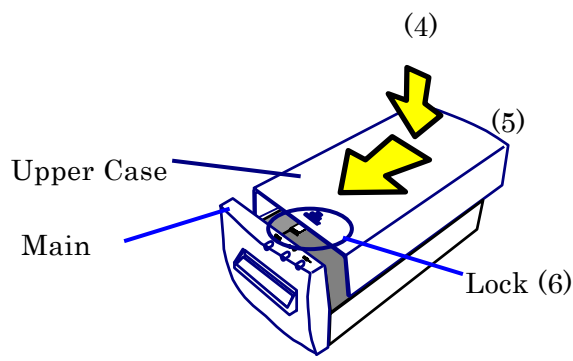
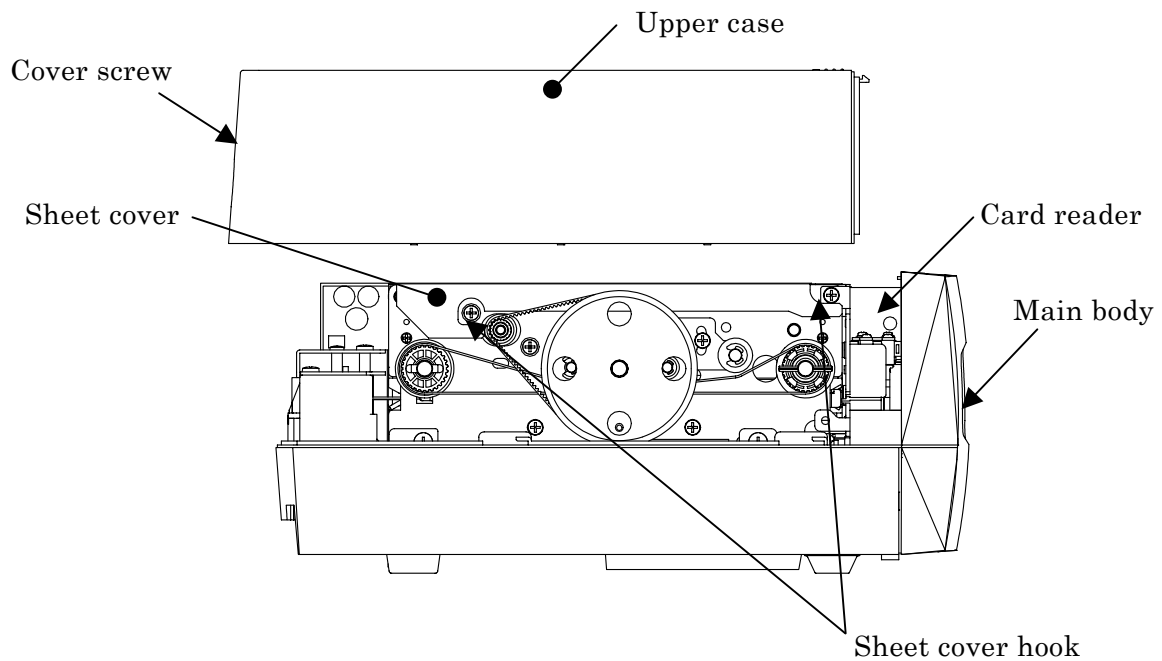
Please refer to a trained technician for removal of a jammed card.

When removing the jammed card, please follow the process below.

- 1) Switch off the AC and make sure that the power LED is extinguished.
- 2) Loosen the cover screw on the upper case rear (use a Phillips-head screwdriver.).
- 3) Push the upper case mark  downwards, in the direction shown by arrow (1), and pull in the direction of arrow (2) moving the case to rear.
- 4) Lift the upper case to remove. .



- 5) Unhook the cover sheet from the top of the card reader and hold by the hook side.
- 6) Using tweezers, inserted from the top of the card reader, gently push the jammed card towards the gate until it can be easily removed by hand.
- 7) Place the upper case on the main body as shown by arrow (4) and slide forward, in the direction of arrow (5), then snap lock the upper case in place (6).
- 8) Fasten the cover screw (use a Phillips-head screwdriver).



8. Considerations for card handling

Please use applicable cards. This equipment cannot handle any cards other than those specified.

1) Remove any foreign objects from the card.

Wipe moisture or oils from cards with a dry cloth prior to using.

Remove any, sticking tape, clips, or eraser residue to prevent card read errors.

2) Damaged cards may not be used on this equipment.

Warped, bent, curled, punctured, or cracked cards may cause read/write errors or card jams.

3) Unreadable card

Damaged or demagnetized cards may make a normal read operation impossible.

9. Daily maintenance

Daily checks and maintenance shall be performed as follows.

1) Cautions

Maintenance must be done with the AC switch shut off. Any maintenance work requiring with upper case removal, should be referred to a trained service technician.

2) Daily maintenance

Each cable connector must be securely connected.

Cables shall not be placed under the equipment or removed.

3) Cleaning

Use a dry cloth to clean the MCRW case.

For more extensive case cleaning, a damp cloth with a neutral detergent should be used. After cleaning the case should be wiped off with a dry cloth.

5) The magnetic head should be periodically cleaned. It is recommended that an approved cleaning card be used for this purpose.

(Cleaning card :Sankyo P/N SBE018601)

10. Notes

1) FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Properly shielded grounded cables and connectors must be used for connection to host computer and/or peripherals in order to meet FCC emission limits.

2) NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.