



Security Engineered Machinery Co., Inc

PRODUCT OPERATION & MAINTENANCE PROCEDURE

For

Model ME-P3R Degausser



POP-0001 Rev. 0

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Introduction

Thank you for purchasing the ME-P3R. When used correctly, the ME-P3R provides a means to thoroughly erase sensitive data from magnetic storage products and media, such as Hard Disk Drives (HDDs) and Magnetic Tapes. Please take the time to read this manual before attempting to use the ME-P3R unit for the first time. Keep this manual in a safe place where it will be readily accessible for you to use as an operating reference.



WARNING: Improper use of the ME-P3R can result in serious harm or injury!

People with pacemakers or other devices that are sensitive to magnetic fields should avoid using the ME-P3R.

Read this Manual Completely for other safety warnings

The manufacturer will not be responsible for any injury or malfunctions resulting from the misuse of this product, other than as set forth in this manual.

1. Overview of the ME-P3R

The ME-P3R employs a motor-driven tray that cycles the product/media to be erased through a high-intensity magnetic field. Note that the ME-P3R will not only erase the data stored on an HDD but will also render the HDD inoperable.



CAUTION: HDDs that have been erased by ME-P3R cannot be reused or repaired by conventional means. Pre-formatted tape media (LTO and some 3480/3490 cartridges) will also be unusable after being erased in this unit.

The ME-P3R provides a quick and reliable means to erase data on the following Hard Disk Drives (HDDs):

- ♣ 3.5-inch Type “Half-Height” (1”) HDDs
- ♣ 2.5-inch Type HDDs
- ♣ 1.8-inch Type HDD & PC-Card HDDs
- ♣ Rev Disk

In addition, the ME-P3R can be used to erase the following types of Tape media:

- ♣ 3480/3490 Tape Cartridges
- ♣ DLT Tapes
- ♣ LTO Tapes
- ♣ ¼” Type QIC Tape
- ♣ DAT Tape
- ♣ 8 mm Helical Tape
- ♣ TRAVAN NS Tape
- ♣ AIT Tape
- ♣ VHS Tape

During the erase cycle, the ME-P3R motor moves the device loaded in the device tray into the high-strength magnetic field created by the internal magnet assembly, and then back out to the device loading/unloading position. The erase cycle takes approximately 15 seconds. The magnetic field in the ME-P3R is contained and operation of the unit should pose no risk to credit cards or other magnetically encoded materials. However, ***people with pacemakers or other devices that are sensitive to magnetic fields should avoid using the ME-P3R.***

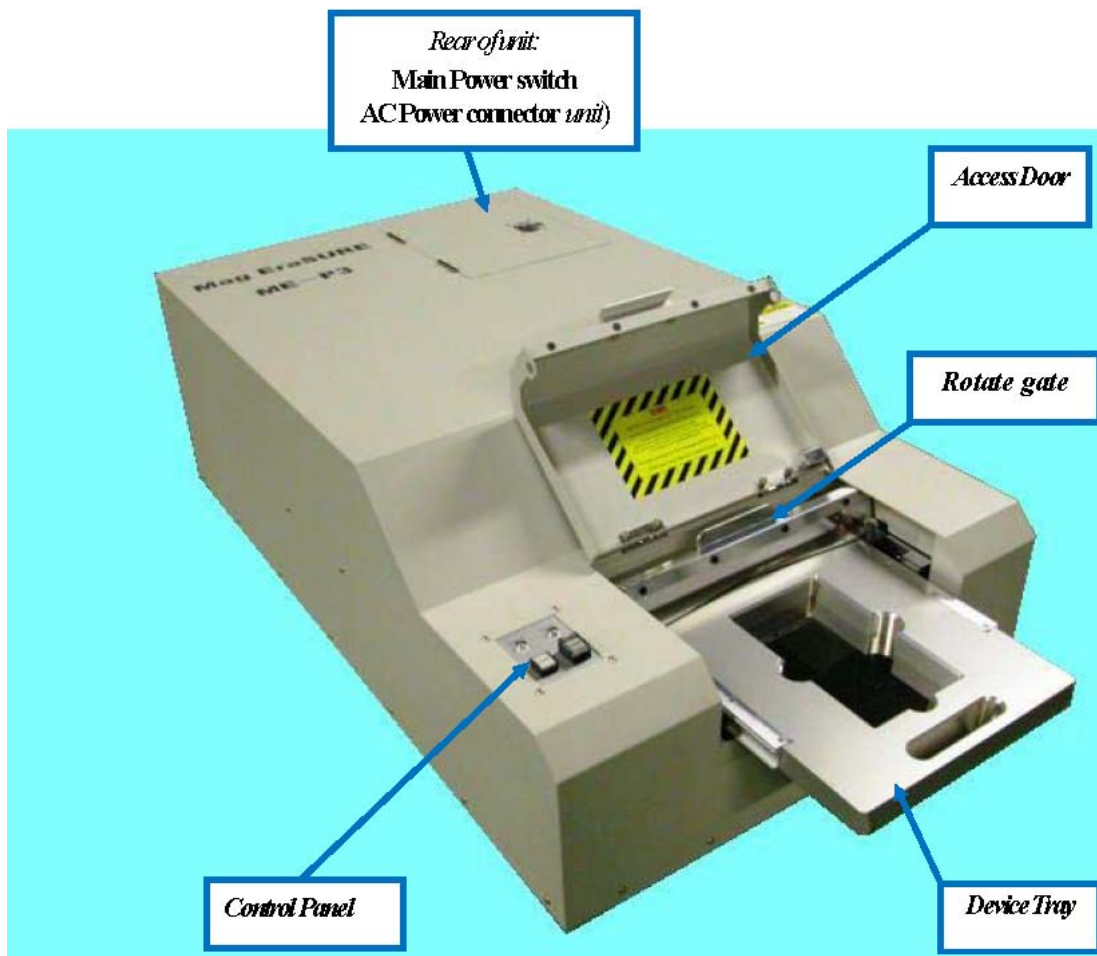


FIGURE 1: ME-P3R

2. ME-P3R Operation

2-1 Setting Up the ME-P3R



WARNING: The ME-P3R is very heavy (approximately 135 kgf.). Minimize the transport of the ME-P3R. Also, in order to avoid the possibility of damage, do not grasp the access door when transporting the unit.

Place the ME-P3R on a level surface for operation, and in a secure location where it will not be subjected to vibrations or impacts. Avoid using or storing the unit in the following locations:

- 1) Direct sunlight or other high-temperature locations.
- 2) Extremely cold or humid locations, or locations where it could come into direct contact with water or other liquids.
- 3) Locations where there is a significant amount of dust, dirt or soot.
- 4) Locations where metal filings or metal particles are present. Metal particles can stick to the unit and are difficult to remove, and will eventually cause the unit to fail.

NOTE: Moving the unit from a cold outdoor environment into a heated room can result in the formation of condensation (collection of water) inside the chassis. In this event, allow the unit to sit and adjust to the new indoor temperature for at least an hour before using it.



2-2 Precautions

When using the ME-P3R, YOU MUST always observe these important safety precautions:

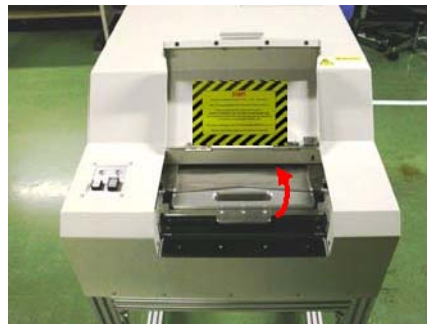
- 1) Do not use ME-P3R for any purpose other than erasing magnetic data from an HDD or a Tape. Do not attempt to erase any devices not listed in Table 1 of this manual (see page 13).
- 2) The strength of the residual magnetic field outside the ME-P3R is very low and poses no direct health risk, however **people with pacemakers or other devices that are sensitive to magnetic fields should not use this product.**
- 3) Do not place coffee, other beverages, or containers of liquid anywhere near the unit. The ME-P3R unit could malfunction or cause a serious injury if liquid gets into the chassis.
- 4) Do not place objects on the cover or the access door of the ME-P3R unit.
- 5) Store the attachments carefully when they are not in use.
- 6) Observe the appropriate precautions when handling the power cord. The power switch must be set to OFF before connecting the power cable. If the unit stops working properly, unplug the power cord. When abnormalities occur in operation, pull out the power cord immediately.
- 7) Do not operate the ME-P3R if it is damaged or you think it is damaged or defective. If the ME-P3R becomes damaged or defective, return it to the place of purchase for repairs.
- 8) Do not attempt to replace a fuse. Take the device to a maintenance company to replace the fuse.
- 9) The correct power supply cord and connector must be used for this device. Failure to use the correct power cord or connector could cause failure of product operation and even fire. Please refer to section 6 of this manual (Usable Detachable Power Supply Cord) for correct specifications.

2-3 Using the ME-P3R

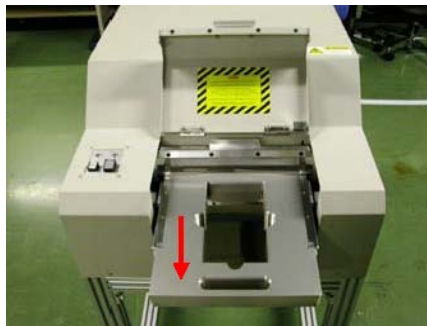
- 1) Make sure the *Power Switch* on the back of the ME-P3R is turned OFF, then connect the power cord.
- 2) Turn on the Power switch. The *POWER* light on the control panel will light up. Verify that the *ALARM* indicator is off.



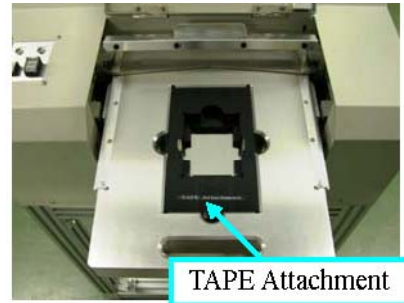
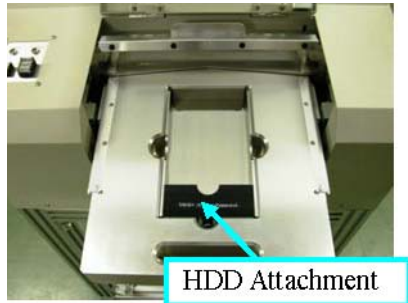
- 3) Open the Access door. (Don't push down on the access door when inserting or removing an HDD from the unit.)
- 4) Raise the Rotate gate.



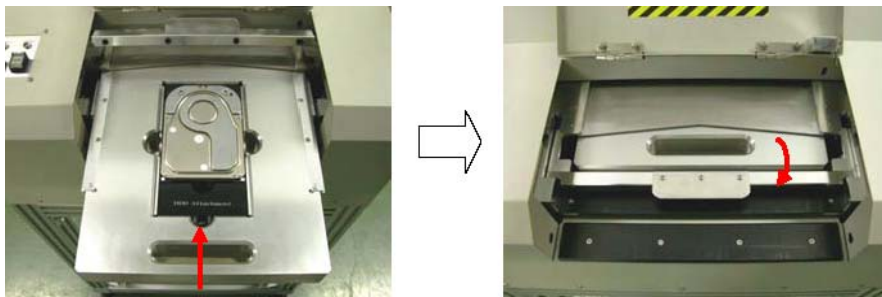
- 5) Pull out the Device tray.



- 6) Install the appropriate device attachment(s) as shown below and then insert the device to be erased. Refer to the section listed in Table 1 for the detailed installation sequence. **Please follow the instructions carefully - using the wrong attachment, or failing to install the device correctly, can damage the ME-P3R unit.**



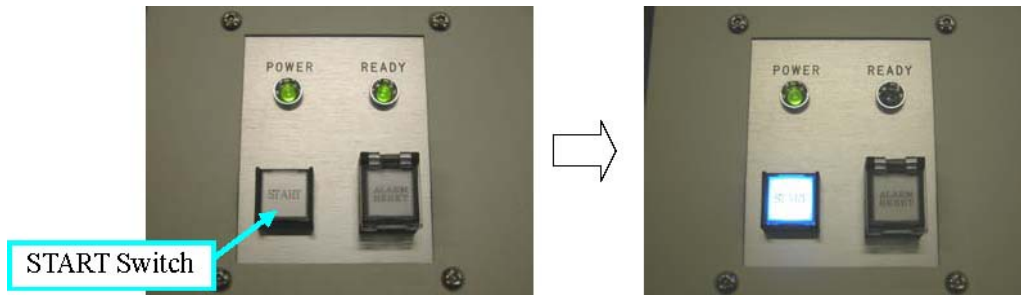
- 7) Return the Device tray, then lower the Rotate gate.



- 8) Close the access door. The *READY* light should illuminate.

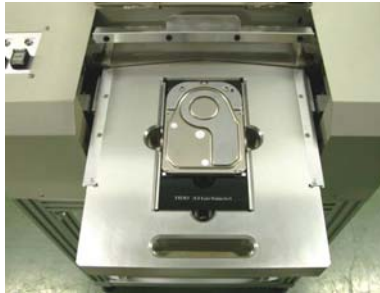


- 9) Press the START Switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.



- 10) When the START indicator light goes off the erasure process is complete.

- 11) Open the Access door.



- 12) Repeat steps 6 – 12 for each device to be erased

- 13) Turn off the Main power switch on the rear panel when finished.

NOTE: If the *ALARM* light goes on during the erasure process, do the following:



- 1) Lift up the protective cover on the *ALARM Switch* and press the *ALARM Switch* until *ALARM* light goes off.
- 2) After the *ALARM* light goes off, press the *START Switch* briefly to restore the system

If *ALARM* light doesn't goes off, unplug all power sources to the machine and then please return it to the place of purchase for repairs.

2-4 Handling Erased HDDs

It is recommended that a label be attached to the erased HDD to indicate that the device has been erased by the ME-P3R unit, to prevent others from inadvertently trying to use the device.



FIGURE 2

After being erased by the ME-P3R, HDDs and pre-formatted tape media (LTO and some 3480/3490 cartridges) cannot be reused or repaired. Please dispose of the HDD in accordance with local, state and federal environmental laws, rules and standards

2-5 Maintenance



- 1) **WARNING : Do not remove any covers or plates, or attempt to disassemble or modify this product in any way.**

There are no user-serviceable parts in the ME-P3R unit and there is a high risk of personal injury if the internal components are handled improperly.

Removing the cover or disassembling this product will void your warranty!

- 2) A clean, soft, dry cloth may be used to wipe down the outside of the ME-P3 and the power cable.

Be sure to unplug the power cable prior to attempting to clean it!

NEVER use harsh chemicals like benzene or thinners to clean the equipment.

- 3) The ME-P3R contains strong magnets. Take appropriate precautions when disposing of the unit.

2-6 Precaution for Correct Use

1) Attachment

The attachments shown in *Figure 3* are designed to support a variety of HDDs and Tape Media. *Table 1* lists the attachments required for each device type supported by the ME-P3R. For details on how to use the attachments, refer to *Table 1*, Attachment Applications.

NOTE: Devices not listed in Table 1 are NOT SUPPORTED by the ME-P3R. **Do not attempt to use the ME-P3R unit with other types of devices.** Doing so might damage the unit, and will void the Manufacturer's Warranty.

TABLE 1: Attachment Applications

HDD Attachment



TAPE Attachment



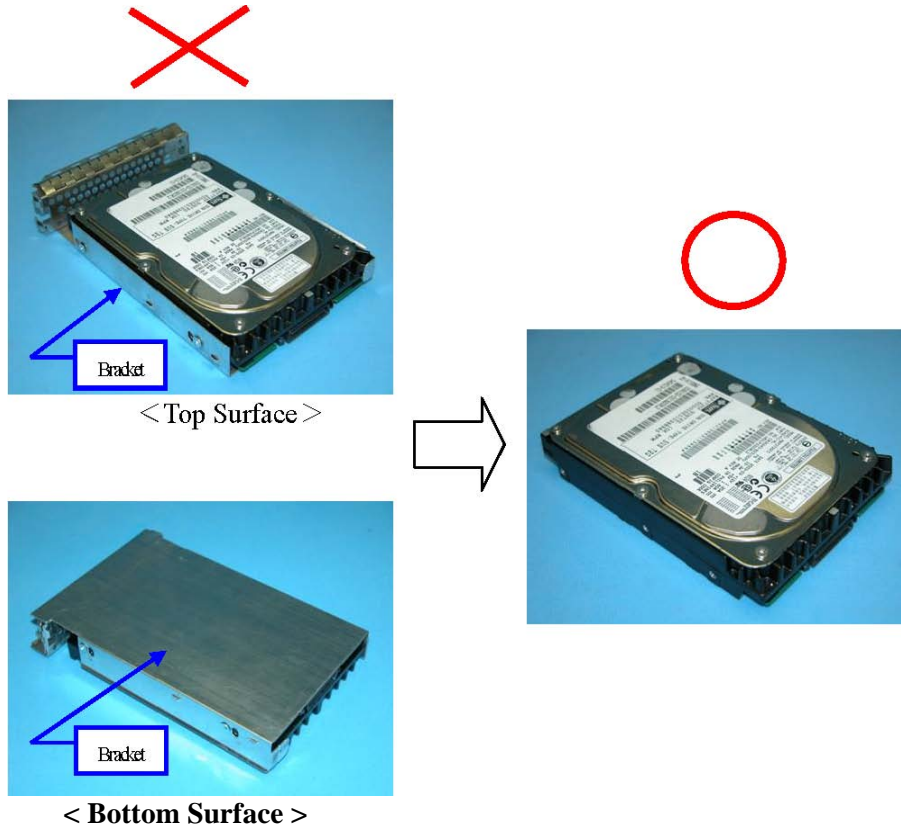


FIGURE 3: Device Adapters

DEVICE	HDD Attachment	TAPE Attachment	SECTION
3.5" Type Half-Height (1") HDD	•		3-1
2.5" Type (9.5 mm H) HDD	•		3-2
2.5" Type (12.5 mm H) HDD	•		3-3
1.8" Type HDD	•		3-4
1.8" Type HDD (PC Card Mounted)	•		3-5
Rev Disk	•		3-6
3480/3490 ½ inch Tape Cartridge			3-7
DLT Tape			3-8
LTO Tape			3-9
¼" Type QIC Tape			3-10
DAT Tape (3.81 mm Helical Scan)		•	3-11
8 mm Tape Helical Scan Tape		•	3-12
TRAVAN NS Tape		•	3-13
AIT Tape		•	3-14
VHS Tape			3-15

2) Erasing an HDD

If a bracket is attached to an HDD, remove the bracket then perform the required operation.



2-7 Counter

The counter is built into this product.

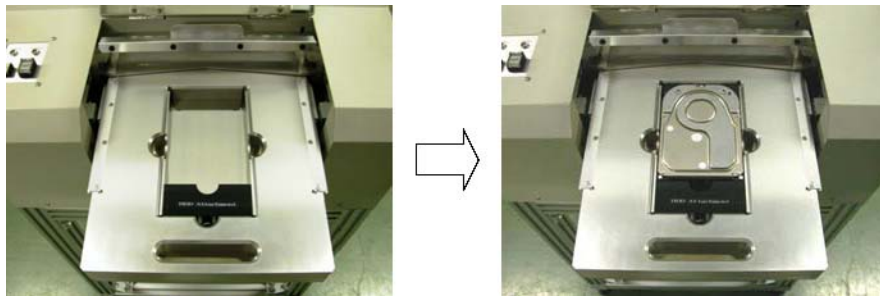
The number of devices erased is displayed behind the ME-P3R.



3. Procedures for Inserting Storage Devices

3-1 3.5-inch Type Half-Height (1-inch Type) HDD

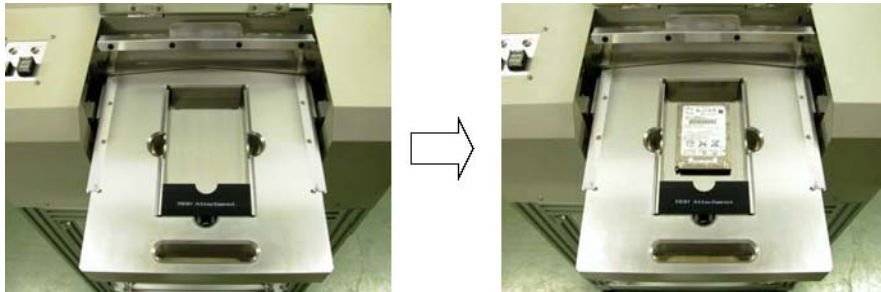
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While turning the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the HDD Attachment in the device tray.
- 5) Set the 3.5" Type HDD.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the 3.5" Type HDD, and HDD Attachment.

3-2 2.5-inch Type (9.5 mm high Type) HDD

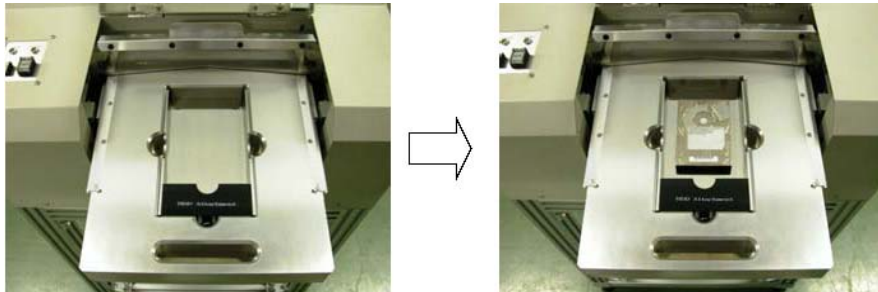
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the “Start Position”.
- 4) Set the HDD Attachment in the device tray.
- 5) Set the 2.5” Type HDD.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the 2.5” Type HDD, and HDD Attachment.

3-3 2.5-inch Type (12.5 mm high) HDD

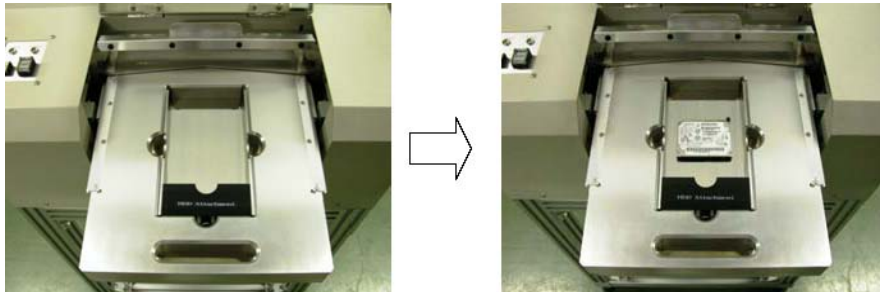
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the “Start Position”.
- 4) Set the HDD Attachment in the device tray.
- 5) Set the 2.5” Type HDD.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the 2.5” Type HDD, and HDD Attachment.

3-4 1.8-inch Type HDD

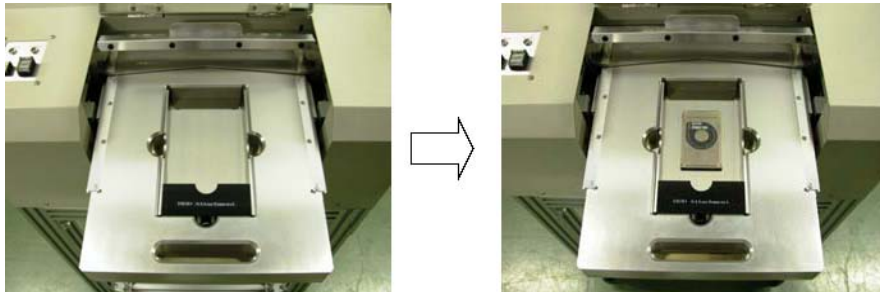
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the “Start Position”.
- 4) Set the HDD Attachment in the device tray.
- 5) Set the 1.8” Type HDD.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the 1.8” Type HDD, and HDD Attachment.

3-5 1.8-inch Type HDD (PC-Card Mounted)

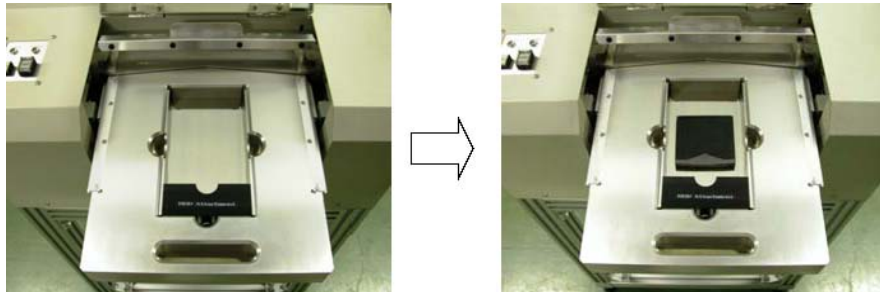
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the HDD Attachment in the device tray.
- 5) Set the 1.8" Type HDD.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the 1.8" Type HDD, and HDD Attachment.

3-6 Rev Disk

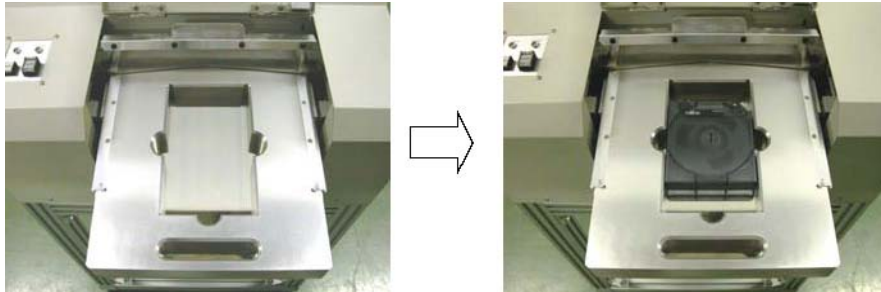
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the “Start Position”.
- 4) Set the HDD Attachment in the device tray.
- 5) Set the Rev Disk.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the Rev Disk, and HDD Attachment.

3-7 3480/3490 1/2-inch Type Tape Cartridge

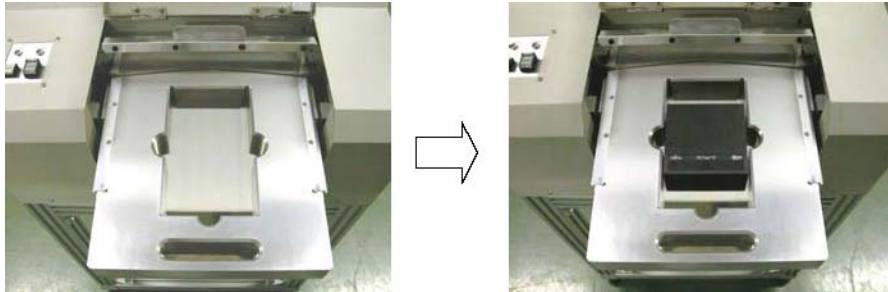
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the 3480/3490 Tape Cartridge.



- 5) Return the device tray, then lower the rotate gate.
- 6) Close the access door. The READY light should illuminate.
- 7) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 8) When the START light goes off, open the access door, and take out the 3480/3490 Tape Cartridge.

3-8 DLT Tape

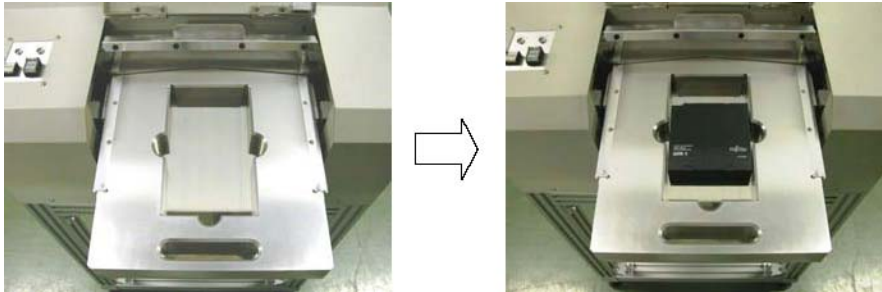
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the DLT Tape.



- 5) Return the device tray, then lower the rotate gate.
- 6) Close the access door. The READY light should illuminate.
- 7) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 8) When the START light goes off, open the access door, and take out the DLT Tape.

3-9 LTO Tape

- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the LTO Tape.

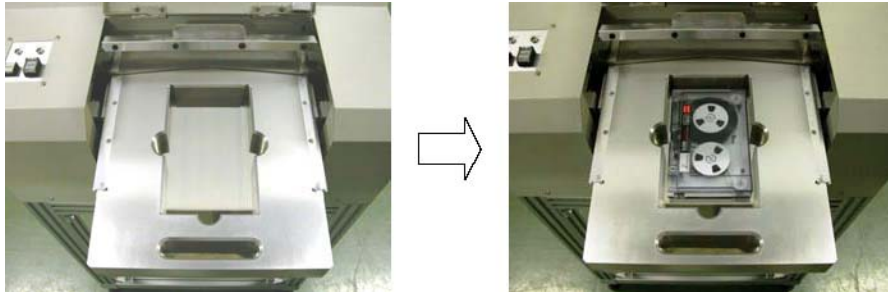


- 5) Return the device tray, then lower the rotate gate.
- 6) Close the access door. The READY light should illuminate.
- 7) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 8) When the START light goes off, open the access door, and take out the LTO Tape.

NOTE: In the degausser erasure of LTO4 & LTO5 tape media storage devices, an additional step is required for secure erasure. After the first erasure pass, remove the tape cartridge, rotate the cartridge 90 degrees, replace it in the tray, and erase a second time.

3-10 ¼-inch Type QIC Tape

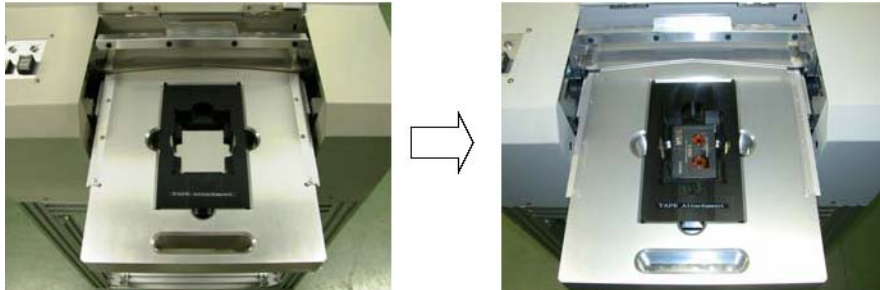
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the “Start Position”.
- 4) Set the ¼-inch Type QIC Tape.



- 5) Return the device tray, then lower the rotate gate.
- 6) Close the access door. The READY light should illuminate.
- 7) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 8) When the START light goes off, open the access door, and take out the ¼-inch Type QIC Tape.

3-11 DAT (3.81 mm Helical Scan) Tape

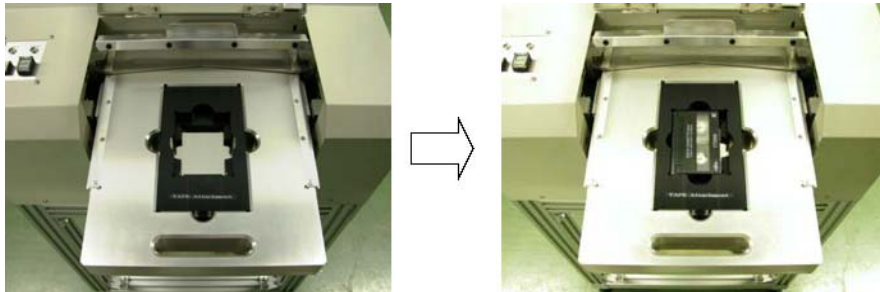
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the TAPE Attachment in the device tray.
- 5) Set the DAT Tape.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the DAT Tape, and TAPE Attachment.

3-12 8 mm Helical Scan Tape

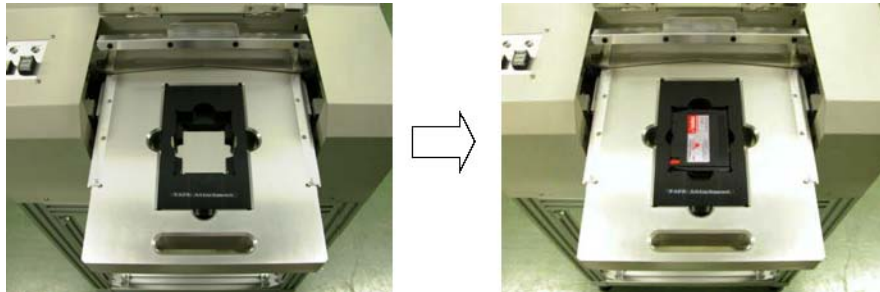
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the TAPE Attachment in the device tray.
- 5) Set the 8 mm Tape.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the 8 mm Tape, and TAPE Attachment.

3-13 TRAVAN NS Tape

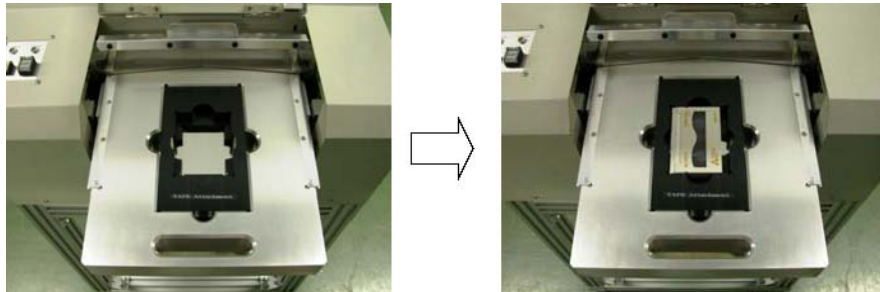
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the “Start Position”.
- 4) Set the TAPE Attachment in the device tray.
- 5) Set the TRAVAN NS Tape.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the TRAVAN NS Tape, and TAPE Attachment.

3-14 AIT Tape

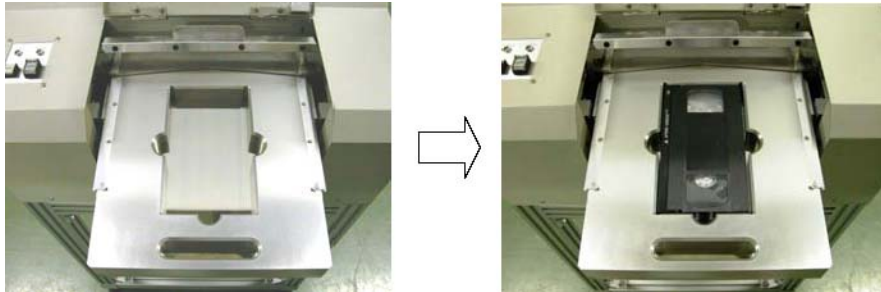
- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the TAPE Attachment in the device tray.
- 5) Set the AIT Tape.



- 6) Return the device tray, then lower the rotate gate.
- 7) Close the access door. The READY light should illuminate.
- 8) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 9) When the START light goes off, open the access door, and take out the AIT Tape, and TAPE Attachment.

3-15 VHS Tape

- 1) Open the access door.
- 2) Raise the rotate gate and pull out the device tray.
- 3) While pulling the Unlock lever, turn the rotation bar until it is in the "Start Position".
- 4) Set the VHS Tape.



- 5) Return the device tray, then lower the rotate gate.
- 6) Close the access door. The READY light should illuminate.
- 7) Press the START switch and hold it down until the START light is illuminated, which indicates that the erasure process has started.
- 8) When the START light goes off, open the access door, and take out the VHS Tape.



4. Specifications

Outside dimension:	585 mm (W) X 1000 mm (D) X 330 mm (H)
Weight:	Approx. 135 Kg
Operating temperature range:	-10 to 40° C
Operating humidity range:	10 to 85% RH
Voltage of power supply:	AC100-240V
Frequency of power supply:	50/60Hz
Maximum rating electric current:	1.5A max
Electrical safety standards:	Conforms to EN60950-1, UL 60950-1, CSA 60950-1
Cycle Time:	Approximately 15 seconds
External Field Strength:	Top/Side 0.01T(100gauss) or less Bottom 0.02T(200gauss) or less

These specifications may vary and may change without prior notice.



5. Supplied Accessories

- 1) HDD Attachment
- 2) TAPE Attachment
- 3) "ERASED" Labels (3000 pcs.)

6. Usable Detachable Power Supply Cord

Model	Input	Connector	Cord	Attachment Plug Cap
North America	100-120V	IEC60320-1 C13 Rated 10A, 125V UL, CSA Approved	Type SJT, No.18 AWG Min. 3- Conductors	NEMA (5-15P)
	200-240V	IEC60320-1 C13 Rated 10A, 250V UL, CSA Approved	Type SJT, No.18 AWG Min. 3-Conductors	NEMA (L6-15P)

NOTE:

- 1) Be sure that the proper detachable supply cord has the approval of the appropriate safety agencies of the country where the equipment will be used.
- 2) Cable length of above power supply cord shall be shorter than 4.5m.

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