

ETERNUS DX60/DX80 Disk storage system

Safety Precautions

This manual describes safety precautions.

For your safety and that of others, follow the guidelines provided in the following pages concerning the use of the ETERNUS DX60/DX80.

First Edition

June 2009

Warning signs are shown throughout this manual in order to prevent injury to the user and/or material damage. These signs are composed of a symbol and a message describing the recommended level of caution. The following explains the symbols, their levels of caution, and their meanings as used in this manual.



This symbol indicates the possibility of serious or fatal injury if the ETERNUS DX60/DX80 is not used properly.



This symbol indicates the possibility of minor or moderate personal injury, as well as damage to the ETERNUS DX60/DX80 and/or to other users and their property, if the ETERNUS DX60/DX80 is not used properly.

The following symbols are used to indicate the type of warnings or cautions being described.

Electrical Shock



The triangle emphasizes the urgency of the WARNING and CAUTION contents. Inside the triangle and above it are details concerning the symbol (e.g. Electrical Shock).

No Disassembly



The barred "Do Not..." circle warns against certain actions. The action which should be avoided is both illustrated inside the barred circle and written above it (e.g. No Disassembly).

Unplug



The black "Must Do..." disk indicates actions that must be taken. The required action is both illustrated inside the black disk and written above it (e.g. Unplug).

If you detect an unusual occurrence during operation



Do Not



- If the power code and/or power plug is damaged, do not use the ETERNUS DX60/DX80 and contact your sales representative or your maintenance engineer. Never attempt to repair the ETERNUS DX60/DX80 by yourself, as there is a risk of electrical shock and/or fire.



- If the ETERNUS DX60/DX80 overheats, gives off smoke or an unusual odor, makes an unusual sound, or shakes abnormally, immediately turn off the ETERNUS DX60/DX80 and disconnect the power plug from the socket. After the problem has subsided, contact your sales representative or your maintenance engineer. Never attempt to repair the ETERNUS DX60/DX80 by yourself, as there is a risk of electrical shock and/or fire.
- If any liquids such as water or foreign objects like metal fragments get into the device, immediately turn off the ETERNUS DX60/DX80 and disconnect the power plug from the socket. Then, contact your sales representative or your maintenance engineer. Never attempt to disassemble the ETERNUS DX60/DX80 by yourself, as there is a risk of electrical shock and/or fire.

Unplug



- If the ETERNUS DX60/DX80 is dropped or covers are damaged, immediately turn off the ETERNUS DX60/DX80 and disconnect the power plug from the socket. Then, contact your sales representative or your maintenance engineer. Never attempt to repair the ETERNUS DX60/DX80 by yourself, as there is a risk of electrical shock and/or fire.

Instructions for installation

⚠ WARNING

Do Not



- Do not place the ETERNUS DX60/DX80 in an area with bad ventilation or where anything that may cause a fire, or flammable gases are generated. This could damage the ETERNUS DX60/DX80 and cause a fire.
- Do not place the ETERNUS DX60/DX80 in locations subject to oil smoke, steam, humidity and dust, or in places where the device may come into contact with water. This could damage the ETERNUS DX60/DX80, and/or lead to fire and electrical shock.
- Never connect the power cables and other cables to the ETERNUS DX60/DX80 during a thunderstorm. It may lead to fire and/or electrical shock.
- Do not place any objects containing water (vases, cups, etc.) on or near the ETERNUS DX60/DX80 as this may cause the water get into the device and damage the ETERNUS DX60/DX80 and/or lead to fire or electrical shock.
- Do not place the device on an unstable floor. The ETERNUS DX60/DX80 may fall and be damaged, and cause injury.

Unplug



- When setting or relocating the device, make sure to unplug the power cable from the outlet. In addition, disconnect all the cables and mind your step. A damaged power cable may cause fire and/or electrical shock, or tripping on a power cable may cause the ETERNUS DX60/DX80 to fall or cause injury.

⚠ CAUTION

Do Not



- Do not use the ETERNUS DX60/DX80 in an area affected by corrosive gas or in a salty environment. This could cause the ETERNUS DX60/DX80 to malfunction.
- Do not place heavy objects on the ETERNUS DX60/DX80. Do not drop anything on it or strike it. This could both damage the ETERNUS DX60/DX80 and cause injuries.
- Do not place the ETERNUS DX60/DX80 in areas with strong magnetic fields, such as in the vicinity of TVs or speakers. This could damage the ETERNUS DX60/DX80 and causes the ETERNUS DX60/DX80 to malfunction.
- Do not lay the connecting cables in a way that they may become trip hazards. This could both damage the ETERNUS DX60/DX80 and cause injuries.

Do



- Do not place the ETERNUS DX60/DX80 on a slanted or unstable surface or in areas that tend to shake. This could cause it to tip over and injure others. Also, do not place this in high traffic areas such as in a hallway. Passersby can shake the unit, damage it or cause incorrect operation.

Temperature



- Keep the temperature within a 5°C to 40°C range. Do not place where the temperature may be higher than 40°C or lower than 5°C. For 24-hour operation, ensure that the air-conditioning schedule is able to maintain the required temperature.
- The ETERNUS DX60/DX80 may only be used within a humidity range of 20 – 80% RH. During the winter, control the heating system to limit ambient temperature rises to less than 10°C per hour to prevent condensation. Failure to do so could damage the ETERNUS DX60/DX80 and lead to electrical shock.

Handling instructions

⚠ WARNING

No Disassembly



- Never attempt to repair the ETERNUS DX60/DX80 by yourself, as there is a risk of electrical shock and/or fire.

Do Not



- Do not use a voltage other than that indicated as it may lead to fire or electrical shock.
- Do not handle the power cable with wet hands as it may lead to electrical shock.
- Do not wind power cables too tightly. This stresses the cable and may expose or snap the inner wires, which can lead to fire or electrical shock.
- Do not damage or modify the power cable or the power plug. Heating, forced bending, twisting, pulling, or placing heavy objects on the power cable will damage it, causing fire or electrical shock.
- Do not plug all the power cables into a single outlet. Doing so may lead to electric shock or fire.
- Do not use a power cable other than the one provided with the ETERNUS DX60/DX80 or specified in the "ETERNUS DX60/DX80 Disk storage system User Guide". Also, do not use the previously mentioned power cable with other devices. Doing so may cause fire, electrical shock, or a malfunction.
- Do not use any optional products other than FUJITSU authorized ones as they may damage the device and/or cause fire or electrical shock.
- Do not insert or drop foreign objects such as metals or flammable objects into openings in the ETERNUS DX60/DX80 (air vents, etc.). Doing so may damage the ETERNUS DX60/DX80 as well as cause fire or electrical shock.
- Do not obstruct the openings (air vents). Doing so may cause overheating and fire.
- Do not use any flammable type cleaning sprays. Doing so may cause the device failure and/or fire.

Do



- Use only power outlets that have a ground. Not doing so may cause fire, electrical shock, or malfunction.
- If there is a thunderstorm, immediately turn off the ETERNUS DX60/DX80 and disconnect the power plug from the outlet. Some thunderstorm lead to fire, electrical shock, or malfunction.
- Ensure the plug is fully inserted into the inlet/power outlet. Not doing so may cause fire or electrical shock.
- When installing the optional products, make sure to follow the procedure described in the ETERNUS DX60/DX80 Disk storage system User Guide. Not doing so may cause fire or electrical shock.

Do Not Wet



- Do not pour or spill water on the ETERNUS DX60/DX80. Doing so may cause fire, electrical shock, or malfunction.

Unplug



- When unplugging the power cable, do not pull on the cable, hold the plug. Pulling on the cable may expose the cable's wiring or break the cable, causing fire or electrical shock.
- Use a dry cloth to remove all dust from plugs and power outlets. Not doing so may cause electrical shock or fire.
- When the ETERNUS DX60/DX80 is not used for a long period of time, unplug all power plugs. Failure to do so may lead to fire.

Warning



- When the ETERNUS DX60/DX80 cover is opened or other moving parts are operated, keep them out of the reach of children. Children touching the ETERNUS DX60/DX80 may be injured by sharp internal protrusions or may damage the ETERNUS DX60/DX80. The ETERNUS DX60/DX80 should not be left unattended until maintenance is complete and the ETERNUS DX60/DX80 is closed again.
- Keep removed covers, caps, screws and other small objects that children might swallow out of their reach. If swallowed, contact a doctor straight away.



Do Not



- When pulling the ETERNUS DX60/DX80 out of the rack and operating the device under the ETERNUS DX60/DX80, watch that you don't hit your head on the device. This may lead to injury.
- Do not put your finger into the socket. It may cause injury.
- The fibre channel installed in the ETERNUS DX60/DX80 is a Class1 LASER product. Normally, it has no effect on the human body, but do not look at the laser beam directly. It may ruin your sight.
- Do not remove the cover from the device socket unless necessary. It may damage the ETERNUS DX60/DX80.
- Before applying insecticides for pest control, turn off the device and cover it with a plastic sheet. Not doing so may cause a malfunction.
- Do not use mobile phones in the vicinity of the ETERNUS DX60/DX80. Doing so may cause a malfunction.

Instructions for rack installation



- When installing the ETERNUS DX60/DX80 with other devices into the same rack, the air-flow of the device installed on and under the ETERNUS DX60/DX80 may interfere each other and have a damaging effect on device cooling. Make sure to leave plenty of room between the devices if required. Failure to do so may damage the ETERNUS DX60/DX80.

Temperature



- Especially for an enclosed rack with doors, or when multiple devices are to be mounted and running, it's important to realize that the temperature inside the cabinet will be considerably higher than that of the room. Consideration for clear air circulation should be given to prevent the rack internal ambient temperature from exceeding 40°C. Failure to do so, it may lead to damage the ETERNUS DX60/DX80.

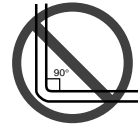


- The ETERNUS DX60/DX80 weighs 35kg. When carrying the ETERNUS DX60/DX80, two or more people should work together and hold both sides and the bottom of the device. Failing to do so may result in injury.
- Be sure not to catch your fingers in the rack when installing the ETERNUS DX60/DX80. Doing so may result in injury.
- When installing the ETERNUS DX60/DX80 into the rack, make sure to install from the bottom to the top of the rack. If the bottom of the rack is empty and the rack becomes unstable it could both damage the ETERNUS DX60/DX80 and cause injuries.
- Install the blank panels provided with the rack where no other devices are installed.

Handling cables



- Do not damage or modify the power cable or the power plug such as heating, forced bending, twisting, pulling, or placing heavy objects on them. Doing so will damage the cable and lead to the ETERNUS DX60/DX80 malfunction.
- Be careful not to bend or pinch the cable. Doing so will damage the cable and lead to the ETERNUS DX60/DX80 malfunction.



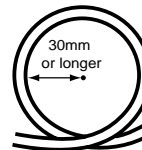
Do not bend square



Do not bind up



- Be sure to fully insert each cable connector into its socket. Not doing so may lead to malfunction.
- When inserting or removing the cable, be sure to hold the plug, not the cable. Not doing so may lead to damaging the ETERNUS DX60/DX80 or malfunction.
- Before connecting cables, confirm that the connectors are clean and free of dust, oil, and grease, etc. Not doing so may lead to malfunction.
- Keep a 30mm or larger radius when bending the Fibre Channel cable. Bending or pinching the cable will damage the cable and lead to the ETERNUS DX60/DX80 malfunction.



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