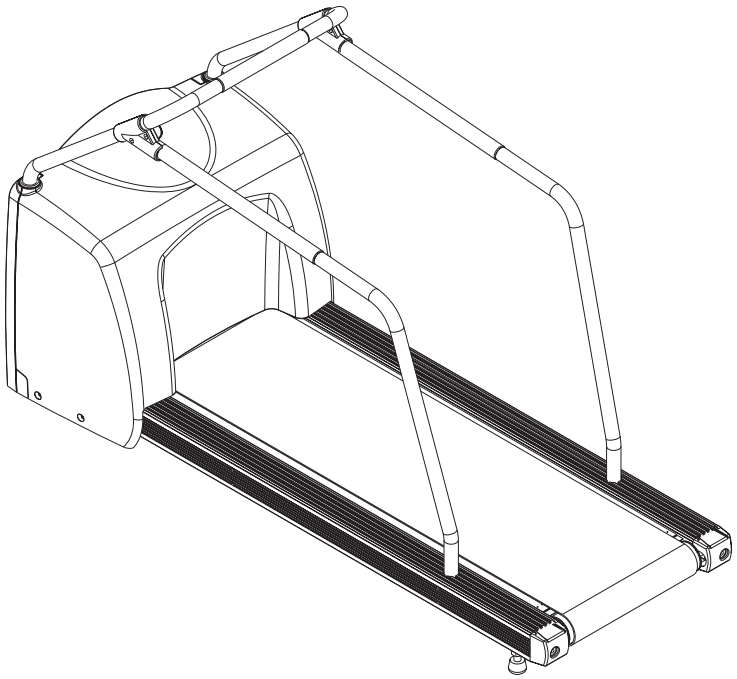
Series 2000
Treadmill
Operator's Manual

409110-006 Revision B



GE Medical Systems
Information Technologies

gemedicalsystems.com

NOTE: Due to continuing product innovation, specifications in this manual are subject to change without notice.

Contents

CE Marking Information

Compliance

The Series 2000 Treadmill bears CE mark CE-0459 indicating its conformity with the provisions of the Council Directive 93/42/EEC concerning medical devices and fulfills the essential requirements of Annex I of this directive. The product is in radio-interference protection class A in accordance with EN 55011.

The country of manufacture can be found on the equipment labeling.

The product complies with the requirements of standard EN 60601-1-2 “Electromagnetic Compatibility - Medical Electrical Equipment”.

The safety and effectiveness of this device has been verified against previously distributed devices. Although all standards applicable to presently marketed devices may not be appropriate for prior devices (i.e. electromagnetic compatibility standards), this device will not impair the safe and effective use of those previously distributed devices. See user’s information.

Exceptions

The Series 2000 Treadmill EMC: Immunity Performance

Users should be aware of known RF sources, such as radio or TV stations and hand-held or mobile two-way radios, and consider them when installing a medical device or system.

Be aware that adding accessories or components, or modifying the medical device or system may degrade the EMI performance. Consult with qualified personnel regarding changes to the system configuration.

For your notes

1 Introduction

For your notes

Manual Information

Revision History

Each page of the document has the document part number and revision letter at the bottom of the page. The revision letter identifies the document's update level.

The revision history of this document is summarized in the table below.

Revision	Date	Comment
A	7 July 1998	Initial release of manual.
B	6 January 2004	Updated to show the new serial number configuration and make editorial changes.

Manual Purpose

This manual contains the instructions necessary to operate the equipment safely in accordance with its function and intended use. These instructions include but are not limited to:

- an explanation of the function of controls and indicators,
- the sequence of operation,
- connection and disconnection of detachable parts and accessories, and
- instructions for operator cleaning, preventive inspection and maintenance.

Where necessary the manual identifies additional sources of relevant information and/or technical assistance.

Conventions

These are the conventions used in this manual.

Safety Messages

DANGER safety messages indicate an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

WARNING safety messages indicate a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

CAUTION safety messages indicate a potentially hazardous situation which, if not avoided may result in minor or moderate injury.

NOTE messages provide additional user information.

Definitions

- Items shown in **Bold** text are keys on the keyboard, text to be entered, or hardware items such as buttons or switches on the equipment.
- Items shown in *Italicized* text are software terms which identify menu items, buttons, or options in various windows.
- To perform an operation which appears with a plus (+)sign between the names of two keys, you press and hold the first key while pressing the second key once. This is called a keystroke combination.

  For example, “Press **Ctrl+Esc**” means to press and hold down the **Ctrl** key while pressing the **Esc** key.
- When instructions are given for typing a precise text string with one or more spaces, the point where the spacebar must be pressed is indicated as: <Space>. The purpose of the < > brackets is to ensure you press the spacebar when required.
- **Enter** means to press the “Enter” or “Return” key on the keyboard. Do not type “enter”.

Safety Information

Responsibility of the Manufacturer

GE Medical Systems *Information Technologies* is responsible for the effects of safety, reliability, and performance only if:

- Assembly operations, extensions, readjustments, modifications, or repairs are carried out by persons authorized by GE Medical Systems *Information Technologies*.
- The electrical installation of the relevant room complies with the requirements of the appropriate regulations.
- The equipment is used in accordance with the instructions for use.

General

This device is intended for use under the direct supervision of a licensed health care practitioner.

To ensure patient safety, use only parts and accessories manufactured or recommended by GE Medical Systems *Information Technologies*.

Contact GE Medical Systems *Information Technologies* for information before connecting any devices to this equipment that are not recommended in this manual.

If the installation of this equipment, in the USA, will use 240 V rather than 120 V, the source must be a center-tapped, 240 V, single-phase circuit.

Parts and accessories used must meet the requirements of the applicable IEC 601 series safety standards, and/or the system configuration must meet the requirements of the IEC 60601-1-1 medical electrical systems standard.

The use of ACCESSORY equipment not complying with the equivalent safety requirements of this equipment may lead to a reduced level of safety of the resulting system. Consideration relating to the choice shall include:

- use of the accessory in the PATIENT VICINITY; and
- evidence that the safety certification of the ACCESSORY has been performed in accordance to the appropriate IEC 60601-1 and/or IEC 60601-1-1 harmonized national standard.

Equipment Symbols

The following symbols appear on the equipment.

This symbol means that you must pay attention to the documents delivered with this equipment. It calls attention to the things to which you must pay special attention during operation and when the equipment is operated in conjunction with other equipment.

In Europe, this symbol means dangerous or high voltage. In the United States, this symbol represents the caution notice below:

CAUTION
To reduce the risk of electric shock, do NOT remove cover (or back). Refer servicing to qualified personnel.

Type B equipment. Type B equipment is suitable for intentional external and internal application to the patient, excluding direct conductive connection to the patient's heart.

Alternating current (AC)

Equipotential (This is the ground lug.)

Protective earth (ground)

M13495, M13504, M13864, M13571, M13574, M13573

Danger and Warnings

DANGER

Do NOT use in the presence of flammable anesthetics.

WARNINGS

Replace only with the same type and rating of fuse.

This is Class I equipment. The mains plug must be connected to an appropriate power supply.

Do NOT contact unit or patient during defibrillation.

Wait until treadmill belt is moving before placing feet on belt.

Keep hands, hair, jewelry, and loose clothing away from moving parts.

Do not place feet under treadmill during elevation changes. Otherwise, serious injury could result.

Route the AC power cable away from moving parts.

Verify proper operation of the stop switch assembly, pn 88380-006, every month.

Operate the treadmill with 6 feet of clearance at the rear (end opposite the motor).

Service Information

Service Requirements

Refer equipment servicing to GE Medical Systems *Information Technologies* authorized service personnel only. Any unauthorized attempt to repair equipment under warranty voids that warranty.

It is the user's responsibility to report the need for service to GE Medical Systems *Information Technologies* or to one of their authorized agents.

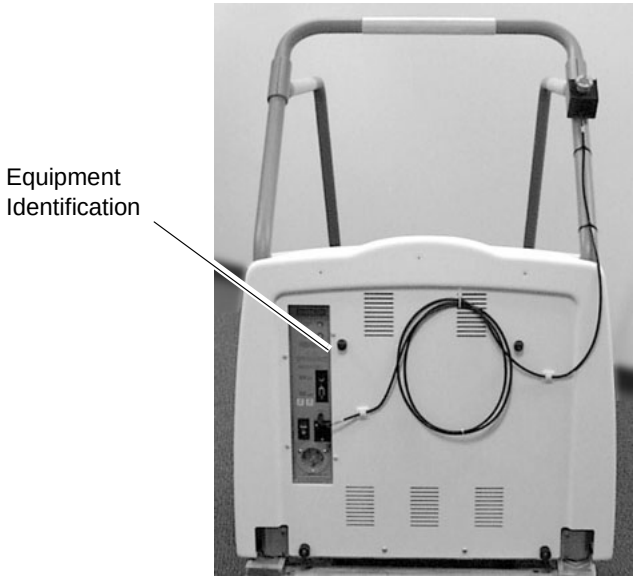
Failure on the part of the responsible individual, hospital, or institution using this equipment to implement a satisfactory maintenance schedule may cause undue equipment failure and possible health hazards.

Regular maintenance, irrespective of usage, is essential to ensure that the Series 2000 treadmill will always be functional when required

Technical specifications describing the equipment can be found in the "Series 20000 treadmill field service manual," PN 409110-004.

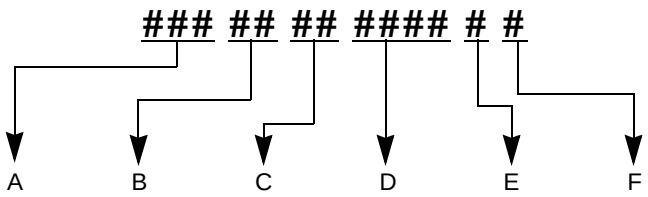
Equipment Identification

The Equipment Identification tag that contains the Serial Number is located where shown below.



Serial Number

Every GE Medical Systems *Information Technologies* device has a unique serial number for identification. An explanation of the Serial Number code is shown below.



A	Product Code (ABM = Series 2000 Treadmill)
B	Year Manufactured (00-99) 00 = 2000 01 = 2001 02 = 2002 (and so on)
C	Fiscal Week Manufactured
D	Production Sequence Number
E	Manufacturing Site
F	Miscellaneous Characteristic

For your notes

2 Equipment Overview

For your notes

Intended Use

The Series 2000 Treadmill is intended for use with any one of the several GE Medical Systems *Information Technologies* exercise testing systems or the MTC-1 (manual treadmill controller) for administering a controlled exercise load during a diagnostic stress test. Standard features include the emergency stop switch, a full handrail set, and a long, 60-inch walking surface.

The emergency stop switch is intended for emergency situations where immediately stopping the treadmill is required to deliver appropriate emergency care to the patient or health care provider, as implied by the American Heart Association "Guidelines for Clinical Exercise Testing Laboratories" (1995). It is not intended for routinely stopping the treadmill.

Preparation for Use

Safe Handling Guidelines

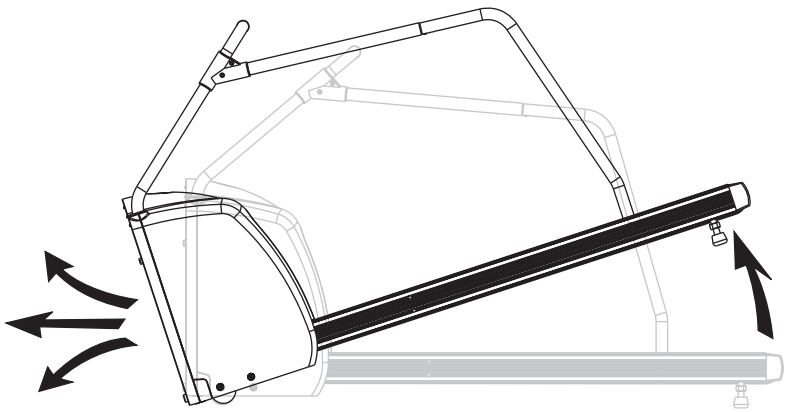
The Series 2000 Treadmill ships preset with an approximate 2% grade. This slight elevation provides for free wheel movement and prevents the shroud from scraping the floor.

NOTE Assembly and Technical specifications describing the equipment can be found in the "Series 20000 treadmill field service manual," PN 409110-004.

If you are moving the treadmill after it has been in operation, use the controlling equipment to set the grade to approximately 7%. Then remove power and disconnect all cables to the treadmill before moving the unit.

Follow the steps below to move the treadmill. We recommend that two people work together since the treadmill may be too heavy for some individuals to lift and lower safely.

1. Lift the end of the bed assembly to about knee height, keeping knees bent and backs straight as you lift.
2. Rotate the treadmill in the direction you want to go (the treadmill will pivot on its wheels) and push forward.
3. When you have maneuvered the treadmill into its new location, gently lower the end of the bed assembly to the floor.



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Operating Instructions

Electrical Safety Tests

The electrical safety of this installation is the responsibility of the customer, not GE Medical Systems *Information Technologies*. In hospitals, contact your in-house biomedical technician, electrician, or technically qualified personnel. Outside of hospitals, contact your hospital affiliation for these services. Otherwise, contact GE Medical Systems *Information Technologies* and open a customer-billable service call.

Before using the treadmill, perform the tests listed below.

- AC line voltage test to verify the power outlet is properly wired.
- Ground continuity test to verify all exposed metal is properly grounded.
- Leakage tests to verify the equipment passes all applicable leakage tests.

Your in-house biomedical technician, electrician, or technically qualified personnel can find instructions for performing these tests in Chapter 3, "Maintenance."

Operating Controls

The treadmill has two operating controls, the power switch and the emergency stop switch. The power switch is located on the rear panel, and the emergency stop switch is on the front handrail.

Power Switch

The power switch controls the AC power to the treadmill. The **on** position (**I**) applies power. The **off** position (**0**) removes power.

Emergency Stop Switch

The emergency stop switch is a safety device for use in emergency situations to stop the treadmill. Press the "**STOP**" push-button and the treadmill promptly stops but the belt will not lock, allowing for removal of foreign objects. To release the emergency stop switch, turn the push-button 1/4-turn in either direction.

Controlling the Treadmill

- Turn the power switch **on** (**I**).
- Use the controlling equipment to start the treadmill, adjust the treadmill speed and grade, proceed through the exercise phases, terminate the exercise session, and turn off the treadmill.

CAUTIONS

Do NOT contact unit or patient during defibrillation.

Wait until treadmill belt is moving before placing feet on belt.

Keep hands, hair, jewelry, and loose clothing away from moving parts.

Do not place feet under treadmill during elevation changes. Otherwise, serious injury could result.

Emergency Stop Switch Check

- With the belt moving at a relatively high speed, press the emergency stop switch. The treadmill belt will stop promptly but the belt will not lock, allowing for removal of foreign objects. To release the switch, turn the button 1/4-inch turn in either direction.
- Use the controlling equipment to terminate the exercise session and turn off the treadmill.

3 Maintenance

For your notes

Introduction

Recommended Maintenance

See the “Series 20000 Treadmill field service manual,” PN 409110-004, for detailed maintenance information.

NOTE

Unless you have an Equipment Maintenance Contract, GE Medical Systems *Information Technologies* does not in any manner assume the responsibility for performing the recommended maintenance procedures. The sole responsibility rests with the individual or institution using the equipment. GE Medical Systems *Information Technologies* service personnel may, at their discretion, follow the procedures provided in this manual as a guide during visits to the equipment site.

Inspection and Cleaning

Visual Inspection

Perform a visual inspection daily. Turn **off** the unit and remove power before making an inspection or cleaning the unit. If you notice any items that need repair, contact an authorized service person to make the repairs.

Inspect the following for excessive wear or damage:

- Walking belt
- Drive belt
- Handrail and hardware
- All cords and cables for fraying or other damage.
- Verify that all cords and connectors are securely seated.

Exterior Cleaning

Turn the treadmill system **off**. Clean the exterior surfaces with a clean, soft cloth and a mild dishwashing detergent diluted in water. Wring out the excess water from the cloth and take care not to drip solutions on the keyboard or writer assembly. (Use anti-septic cleaner on the handrails and walking belt.) Avoid contact with open vents, plugs or connectors. Dry the surfaces with a clean cloth or paper towel.

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