

CENTRY™ 103 Minicentrifuge

Quick Guide

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Figure 1
CENTRY™ 103 Minicentrifuge components

Parts Checklist

- 1 Lid
- 2 Chamber
- 3 Motor shaft boss
- 4 Power indicator light
- 5 Main power switch
- 6 AC adapter connector
- 7 Battery compartment
4 AA size / LR6, alkaline
batteries (1.5V)
- 8 Rotor for microtubes:
2.0 mL x 8 microtubes or 1.5 mL x 8 microtubes
- 9 Rotor for Tube-strips:
2 lines of 0.2 mL x 8 connected microtubes
- 10 AC adapter
Input voltage: AC 100–240V, 50/60 Hz
- 11 Type C (EU)
- 12 Type A (Japan/USA)
- 13 Type A (China)
- 14 Type G (UK)
- 15 Type I (Australia)



Operation

Installing

- Place the Minicentrifuge on a flat and level surface such as a laboratory bench.
- The place must be well ventilated and free of direct sunlight.
- Avoid installing the Minicentrifuge on a slippery surface or surface prone to vibration.

⚠️WARNING

Do not install the instrument in facilities that store chemicals which could generate flammable gases or fumes.

Connecting to the Power Source and Turning On

1. Connect the type of plug **11**, **12**, **13**, **14**, or **15** compatible with the local power socket to the AC adapter **10** (Refer to Figure 1).

⚠️WARNING

Only use the AC adapter provided with this product. It may cause fire or electrical shock.

2. Insert the other end of the AC adapter **10** into the connector **6** on the back of the Minicentrifuge and connect the plug to the power source.
3. To open the lid, lightly push down on the lid to release the lock.

⚠️CAUTION

If the power switch is turned on while the lid is closed, the rotor will start spinning immediately, which may cause damage to the Minicentrifuge.

4. Press the main power switch **5** to its ON position (“I” side) to turn the unit on. The power indicator red light turns on.

Installing the Rotor

NOTE

Before the initial use, turn the rotor slowly by hand, five to six revolutions.

1. Install the rotor **8** or **9** onto the motor shaft boss **3**.
2. Push down until it clicks (Refer to Figure 2). Make sure that the tabs of the boss are blocked inside the hole of the rotor.

For dismantling the rotor, hold it by both hands and push the tabs inward with two thumbs to disconnect them from the rotor, then pull the rotor out from the motor shaft boss.

⚠️WARNING

Do not use any damaged, deformed, or corroded rotors. It may break the rotor while spinning and cause unexpected accidents or injury.

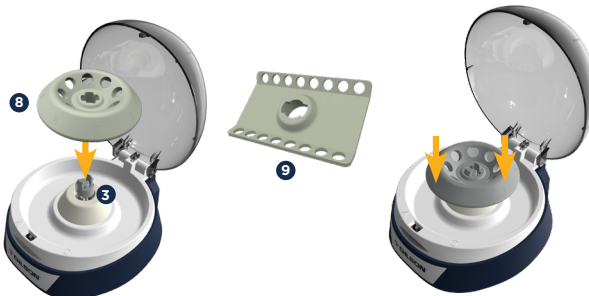


Figure 2

Install the rotor onto the motor shaft boss



Figure 3

Balanced sample microtubes setting

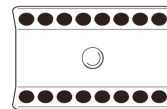


Figure 4

Balanced rotor with 2 Tube-strips

Preparing the Microtubes

- Prepare the microtubes that are compatible with the rotor in use.

WARNING

Do not use the instrument to centrifuge explosive or flammable samples. It may cause fatal or serious accidents. The instrument does not provide adequate protection against explosion or ignition.

Do not use the instrument to centrifuge infectious samples. It may cause a serious hazard to laboratory personnel. The instrument is not a biohazard safety model. If there is the need of handling any potentially infectious or radioactive samples, or other hazardous materials, implement appropriate safety measures.

- Load the microtubes in the rotor symmetrically. Always ensure that the microtubes are appropriately balanced, as described in Figures 3 and 4 on page 2 (black circles indicate different possible tube placement).

NOTICE

Imbalanced loads will significantly reduce the life of the motor and Minicentrifuge.

WARNING

In severe cases, imbalances may damage the Minicentrifuge and injure the operator.

CAUTION

Do not overfill microtubes. The sample volume should not exceed 70% of the maximum allowable volume of the tube in use. The sample may spill during run and damage the Minicentrifuge.

Always use cap centrifuge microtubes. The sample may spill during run.

Starting and Ending Operation

- By closing the lid **1**, the rotor instantly starts spinning. After six minutes of spinning, the rotor will automatically decelerate to a stop.

WARNING

Ensure that there is no foreign material in the rotor or in the chamber before operating the instrument. It may break a sample during spinning and the broken pieces may scatter, resulting in a serious accident.

- For ending the operation, lightly press down on the lid **1**. The rotor will start decelerating and the lid will lift automatically.
- The operation ends when the rotor is completely stopped, and the sample tubes can be unloaded.

WARNING

Never open the lid while the rotor is spinning. Accidental contact with the spinning rotor may cause a serious injury.

Using Batteries

The instrument can be operated using battery power when there is no power supply available.

- Install four AA (LR6, 1.5V) alkaline batteries from the same brand in the battery compartment **7** (Refer to Figure 1 on the first page).
- The AC adapter is given first priority if connected.

WARNING

Do not mix batteries by age or by brand type. The battery may cause heating, leakage, or explosion and could result in damage to the instrument or personal injury. When leaving the instrument out of use for a long period of time, be sure to remove the batteries for safety. The battery may cause leakage and could result in damage to the instrument or personal injury.

Do not attempt to replace the batteries immediately after use, touching them could result in burns.

Routine Maintenance

For routine maintenance, please refer to the *User's Guide CENTRY™ 103 Minicentrifuge LT801606*, which can be consulted and downloaded from our website www.gilson.com



Unplug the instrument before performing maintenance procedures. It may cause a serious electrical shock.

Cleaning and Disinfecting

For cleaning the Minicentrifuge, wipe the unit with a soft cloth moistened with a neutral detergent. The unit can be disinfected with ethanol.

Inspecting and Maintaining

- Check the rotor, main body, and lid for damage, deformation, and corrosion.
- Check the lid to make sure it opens and closes smoothly. Press down on the lid to make sure it is locked into place.
- Slowly rotate the rotor by hand to make sure it rotates smoothly and does not contact any other component.
- Operate the centrifuge with no microtubes in the rotor and make sure it is running safely without excessive vibration.
- Check the brake for wear. Verify if it takes an abnormally long time for the rotor to come to a complete stop or if it takes longer to stop than it used to.
- Check the AC adapter for damage, cracks, or broken cable.

NOTE

Inspection is recommended to be performed on a monthly basis.

Ordering Information

DESCRIPTION	PART NUMBER
CENTRY 103 Minicentrifuge	F110736

Spare parts

DESCRIPTION	PART NUMBER
CENTRY 103 ROTOR 8 TUBES 1.5-2.0 mL	F1077310
CENTRY 103 ROTOR 2 TUBE-STRIPS 8 X 0.2 mL	F1077311
CENTRY 103 MOTOR SHAFT BOSS	F1077312
CENTRY 103 AC ADAPTER WITH 5 PLUGS	F1077313

Warranty

Gilson warrants the CENTRY 103 Minicentrifuge against defects in material under normal use and service for 12 months from the date of purchase. This warranty is valid only if the instrument is used in the manner described in this guide and for the purpose for which it is designed. Gilson is not responsible for consequential damages resulting from the misuse or bad cleaning or decontamination of this instrument. Should warranty service be required, repair or replacement will be provided by your local Gilson service center. Freight shipping the unit to Gilson will be the responsibility of the purchaser.

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