

B0DY1B33W

Generic Laboratory Centrifuge Machine 3500 RPM (Model B0DY1B33W) - User Manual

For efficient separation of liquids and solids in laboratory settings.

1. INTRODUCTION

The Generic Laboratory Centrifuge Machine, Model B0DY1B33W, is a high-performance benchtop unit designed for the efficient separation of liquids and solids in various laboratory applications. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your centrifuge.

Key features include:

- **8-Tube Capacity:** Accommodates up to 8 standard 10-15 ml test tubes.
- **High-Speed Performance:** Delivers a maximum speed of 3500 RPM for quick and efficient separation.
- **Durable Motor:** Equipped with a copper winding motor for long-lasting performance.
- **ABS Body:** Constructed from high-quality ABS material for durability and corrosion resistance.
- **Safety Features:** Includes a built-in safety lid lock and imbalance detection system.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the centrifuge. Failure to follow these guidelines may result in injury or damage to the equipment.

- Always place the centrifuge on a stable, level surface.
- Ensure the power supply matches the specifications listed on the device.
- Do not operate the centrifuge with an open lid. The safety lid lock prevents operation when the lid is not securely closed.
- Always balance tubes correctly before operation. Uneven loading can cause vibration, noise, and potential damage. The imbalance detection system will stop operation if an imbalance is detected.
- Do not touch the rotor or tubes while the centrifuge is in operation.
- Disconnect the power cord before cleaning or maintenance.
- Do not use the centrifuge in environments with explosive or flammable materials.
- Keep hands, hair, and loose clothing away from moving parts.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your centrifuge.



Figure 1: Front view of the Generic Laboratory Centrifuge Machine, showing the main unit and control panel.



Figure 2: Detail of the control panel, featuring the speed dial (OFF, 1-5) and indicator light.

Components:

- **Lid:** Covers the rotor chamber. Must be closed for operation.
- **Rotor:** Holds the test tubes. Designed for 8 tubes.
- **Control Panel:** Includes a speed control knob and an indicator light.
- **Base:** Provides stability and houses the motor and electronics.
- **Power Inlet:** For connecting the power cord.

4. SETUP

1. **Unpacking:** Carefully remove the centrifuge from its packaging. Retain all packaging materials for future transport or storage.
2. **Placement:** Place the centrifuge on a sturdy, level, and vibration-free workbench or counter. Ensure there is adequate space around the unit for ventilation and safe operation. Avoid direct sunlight or heat sources.
3. **Power Connection:** Ensure the speed control knob is in the "OFF" position. Connect the provided power cord to the centrifuge's power inlet and then to a grounded electrical outlet. Verify that the voltage matches the centrifuge's requirements.
4. **Initial Inspection:** Open the lid and inspect the rotor for any foreign objects or damage. Clean if necessary.

5. OPERATING INSTRUCTIONS

1. **Prepare Samples:** Fill your 10-15 ml test tubes with the samples to be centrifuged.
2. **Balance Tubes:** It is critical to balance the tubes before placing them in the rotor. Tubes must be loaded symmetrically with equal weights. For example, if using 2 tubes, place them opposite each other. If using 4 tubes, place them at 90-degree intervals. If using an odd number of tubes, use a balance tube filled with water to match the weight of your sample tube.
3. **Load Rotor:** Open the centrifuge lid and carefully place the balanced tubes into the rotor slots. Ensure they are seated firmly.
4. **Close Lid:** Close the centrifuge lid securely. The unit will not operate if the lid is not properly latched.
5. **Set Speed:** Turn the speed control knob to the desired setting (1-5). Setting '1' is the lowest speed, and '5' is the maximum speed (3500 RPM). The indicator light will illuminate when the unit is powered on and operating.
6. **Start Centrifugation:** The centrifuge will begin operation immediately upon selecting a speed. Monitor the unit for any unusual vibrations or noises. If detected, turn the knob to "OFF" immediately and check tube balance.
7. **Stop Centrifugation:** To stop the centrifuge, turn the speed control knob to the "OFF" position. The rotor will gradually slow down and stop. Do not attempt to open the lid until the rotor has come to a complete stop.
8. **Remove Samples:** Once the rotor has stopped, open the lid and carefully remove your centrifuged samples.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your centrifuge.

- **Cleaning:** Disconnect the power cord before cleaning. Wipe the exterior and rotor chamber with a soft, damp cloth and a mild detergent. Do not use abrasive cleaners or solvents. Ensure no liquid enters the motor or electrical components.
- **Rotor Care:** Periodically inspect the rotor for any signs of corrosion or damage. Clean any spills immediately.
- **Storage:** When not in use for extended periods, store the centrifuge in a clean, dry, and dust-free environment.
- **Inspection:** Regularly check the power cord for any damage.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Centrifuge does not start	Power cord not connected; Lid not closed properly; Speed knob not set.	Check power connection; Ensure lid is securely latched; Turn speed knob to a setting other than "OFF".
Excessive vibration or noise	Tubes are unbalanced; Centrifuge not on a level surface; Damaged rotor.	Re-balance tubes (ensure equal weight and symmetrical placement); Move centrifuge to a level surface; Contact support if rotor is damaged.
Lid cannot be opened after operation	Rotor has not come to a complete stop.	Wait for the rotor to stop completely. Do not force the lid open.
Unit stops unexpectedly during operation	Imbalance detected; Power interruption.	Check tube balance and restart; Check power supply.

8. SPECIFICATIONS

Feature	Detail
Model	B0DY1B33W
Tube Capacity	8 tubes (10-15 ml compatible)
Maximum Speed	3500 RPM
Motor Type	Copper Winding Motor
Body Material	ABS
Product Dimensions	12 x 10 x 8 inches
Item Weight	4.4 pounds
Manufacturer	SPANCARE_PHARMACEUTICALS

9. WHAT'S IN THE BOX

- Centrifuge Machine
- Power Cord
- User Manual (this document)