



PowerSpin LX Centrifuge Operation Manual

For use with MFR#C856, C856H, C858 and C858H



Model# C856H

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The UNICO PowerSpin LX series centrifuges with variable speed control and timer are designed to run for years of demanding laboratory work in clinical labs, physician's offices as well as in any chemical, industrial or biological labs where separation for blood or other materials are desirable.

Features

- Fixed angle rotor for use with standard 13x100 or 16x100 tubes.
- Short tube adapters for 13x75 or 16x75mm tubes optional
- 30-minute mechanical timer with bell signal at end of the spin.
- High Impact plastic housing for years of dependable use
- The safety switch in lid shuts off motor when lid is opened.
- Power indicator light when unit is powered on.

| Model# | Rotor | Side Holder | Speed, rpm | Max RCF | Timer |
|--------|---------|-------------|-------------|---------|--------|
| C856 | 6 place | Optional | 500 - 4,000 | 1828 | 30 min |
| C856H | 6 place | Included | 500 - 4,000 | 1828 | 30 min |
| C858 | 8 place | Optional | 500 - 4,000 | 1828 | 30 min |
| C858H | 8 place | Included | 500 - 4,000 | 1828 | 30 min |

Construction

The body of the UNICO PowerSpin Centrifuge is made of high impact plastic, which is acid and reagent resistant. The internal chamber is made of stainless steel. A built-in safety switch disconnects the power to the motor whenever the lid is unlatched. The motor is mounted on rubber mounts to provide quieter running and less vibration. The rotor chamber can be easily cleaned and disinfected.

Accessories

Balance Tube Holdster included with C856H and C858H. Contact your distributor for details and availability.

Unpacking and Installation

The centrifuge is first packed in a styrofoam and then put in a carton box for shipping. Please examine the package upon receiving and retain all packing until the unit has been tested. The warranty excludes any damage caused by shipping. If you note any damage, please contact your distributor.

Package contents:

- C856 Centrifuge 1 unit
- Power cord 1 pc.
- Operation manual 1 pc.

- Place the centrifuge on a sturdy flat surface.
- Press the lid latch release button located on the right side and open the centrifuge cover. A special packing Styrofoam disc is packed inside the lid of the centrifuge to prevent the rotor or shields from moving during shipping.
REMOVE THIS PACKING DISC PRIOR TO OPERATION OF THE CENTRIFUGE

- The centrifuge rotor is pre-installed. No rotor installation and calibration is required.
- The power inlet is in the back of the centrifuge. Plug in one end of the power cord to the inlet and the other end to a power outlet.
- Turn the speed control counterclockwise to “0” rpm.

Operation

1. Set the timer to 0
2. Plug the centrifuge into a power source outlet. Make sure the voltage is correct.
3. Turn the power rocker switch in rear of unit to “on” position.
4. Open the lid by pressing the lid-opening button.
5. Place the specimen tubes into the tube shields of the rotor.
6. Close the lid firmly.
7. Rotate the speed control knob slowly to the appropriate speed.
8. Set the timer clockwise to the desired time.
9. After the centrifuge rotor has come to a complete stop open the lid.

Safety

PowerSpin centrifuge is a carefully designed and built instrument. When operated properly, it presents no safety hazards, however, take note of these safety precautions:

NEVER OPEN THE LID UNTIL THE ROTOR HAS COME TO A COMPLETE STOP!

MAKE SURE THAT THE LOAD IS BALANCED BEFORE OPERATING THE INSTRUMENT!

It is very important that test tubes with equal loads are placed opposite each other in the rotor. Also, when spinning a single specimen tube, another tube of the same size and weight must be installed directly across to maintain balance. If the centrifuge is not properly balanced, damage could occur. If excessive noise or vibration is noticed during a run, stop the centrifuge, and recheck the balance.

Maintenance

This centrifuge is designed to be relatively maintenance free. The brushless motor has permanently sealed bearings. A surface cleaner such as Formula 409 can be used to clean the outside of the instrument. The rotor chamber and cover can be disinfected with a mild solution of bleach or other disinfecting liquid and allowed to dry. Do not drench or immerse the unit in any liquid! Be sure to disconnect the power before attempting to clean.

Routine Rotor Inspection and Maintenance

Rotors should be removed and inspected for damage or defects:

- Before initial use
- Each time the rotor is removed for cleaning.
- At least every 6 months

Plastic rotors and tube shields should be replaced every 12 months:

MFR# C800-00P – 6 place rotor and 6 tube shields replacement package

MFR# C800-01P – 8 place rotor and 8 tube shields replacement package

If you detect any problems or damage, or defects in your centrifuge rotor or tube shields discontinue use of the centrifuge and rotor immediately. Contact your supplier or call UNICO at 732-274-1155. Please have the serial # (located on the back of the unit) and any information you may have about where and when it was purchased.

Calibration

Your centrifuge has been factory calibrated and checked for speed and timer accuracy prior to release. Please consult your local regulatory guidelines to help you establish maintenance and/or function check protocol and perform and document the described activities as they are carried out over time.

- 1) The speed should fall within ± 150 rpm of the speed display.



Speed is checked using
UNICO digital tachometer.
MFR# C800-75

- 2) The mechanical timer is designed to be accurate to 5min \pm 30sec.

Electrical Shock Hazard

Do not attempt to operate this instrument near water or liquid spill. Unplug the unit before cleaning or repairing. Periodically check the condition of the power cord for cuts or damage. Do not operate with a damaged cord.

Biohazard

If a tube breaks, a biological hazard may exist. Unplug the instrument. Clean using approved laboratory procedures. Always wear the proper protective clothing and gloves. Use a suitable disinfectant and dispose of the sample properly. Refer to the guidelines set forth by OSHA, CLIA, etc.

Service

Please call us and speak to a customer service representative to determine the nature of the problem. If the instrument needs to be returned to UNICO, a R.G.A. number will be issued. Please reference the R.G.A. number on the paperwork packed with the instrument, and on the outside of the carton.

REPAIRS OR MODIFICATIONS MADE TO THE CENTRIFUGE BY AN UNAUTHORIZED PARTY WILL VOID THE WARRANTY.

Problem Solving

1. Centrifuge does not start
 - a) Check to determine if centrifuge is plugged in.
 - b) Check that timer has been set.
 - c) Check that lid is closed and latched.
 - d) Check that Power rocker switch in rear of unit is in the “on” position.
 - e) Check that the Power indicator is on. A failure of the power light to illuminate could indicate a need for a new fuse when the unit is properly plugged in turned on and the lid closed.
2. Excessive noise when running. Make sure that the load is balanced.
3. Fuse Replacement
 - a) Turn the power off, unplug the power cord and remove it from the power inlet on the back of the centrifuge. The fuse holder is part of the power inlet.
 - b) Use a flat screwdriver to pull the snap-in holder out. Remove the blown fuse and replace it with the same type of fuse rated 250V 3A. Push the holder back in.

Warranty

This instrument is warranted against defects in materials and workmanship for a period of one (1) year from the date of shipment to the customer. This warranty is limited to the repair and replacement of parts, which prove to be defective during the warranty period. This warranty is not valid for parts damaged, lost, or which fail because of accident, fire, theft, acts of nature, negligence, or the use of chemicals, which have a deleterious effect. This warranty is conditioned upon the manufacturer retaining the option of replacing parts up to and including the entire instrument.

This warranty will not extend to any repairs or modifications made to the instrument by some party other than the manufacturer or a party authorized by UNICO. Also, this warranty shall be in effect only upon the notice of the defect to the manufacturer or its authorized distributor, or dealer, within five (5) days after the occurrence of said defect. No other warranty of any kind is made express or implied. The warranty described above shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period described above, shall constitute complete fulfillment of all liabilities and responsibilities of the manufacturer to the purchaser with respect to the product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall the manufacturer be liable, or in any way responsible for any damages or defects in the product that were caused by repairs or attempted repairs performed by anyone other than the manufacturer’s dealer or station, nor shall the manufacturer be liable or in any way responsible for any incidental or consequential economic or property damages. Some states do not allow the exclusion of incidental or consequential damage, so the above exclusion may not apply to you.