



## StripSpin 12D Micro Centrifuge Operations Manual

C2248 (-E)



### Introduction:

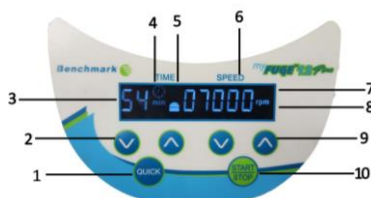
Thank you for purchasing the StripSpin 12D Micro Centrifuge. Please read this manual thoroughly prior to operating the instrument.

The StripSpin 12D Micro Centrifuge is designed for low speed (up to 5500 rpm) applications and quick spin downs of 12 positions 0.2ml PCR strips and individual 0.2ml tubes.

### Installation:

Place the StripSpin 12D, on a flat and level surface nearby an electrical outlet. It should not be near a heat source or in direct sunlight.

### Controls and Display:

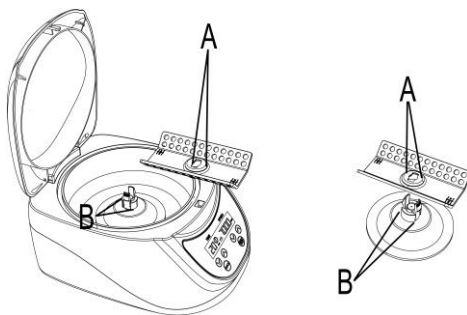


1. Short spin button
2. Time setting button (min./sec)
3. Timer display; 4. Timer display (min./sec.)
5. Lid status
6. Speed display
7. Operation status
8. RPM/RCF indication
9. Speed setting buttons
10. Start / stop button

### Specifications:

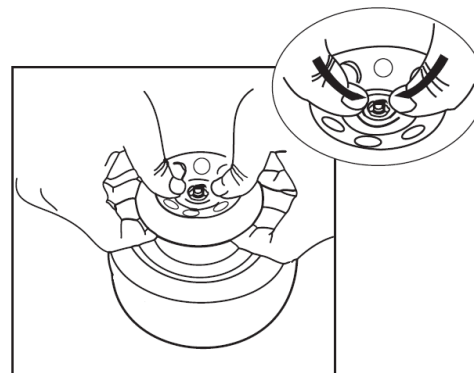
|              |                                                               |
|--------------|---------------------------------------------------------------|
| Speed:       | 5500 rpm / 1690 xg                                            |
| Capacity:    | 4 x 12-place PCR Strip<br>48 x 0.2ml tubes                    |
| Timer:       | 1-99 min 59 sec                                               |
| Dimensions:  | 7.64(W) x 9(D) x 4.72(H) in.<br>19.4(W) x 22.9(D) x 12 (H) cm |
| Electrical:  | 120V - 230V, 50-60 Hz, 45W                                    |
| Max. Radius: | 6.0cm                                                         |

### Installing and removing the rotor:



As the images show parts "A" and "B", please make sure the positioning is the same. Then with both hands hold the rotor symmetrically then press straight down. An audible "click" signifies that the rotor is locked in place.

To remove, use your thumbs to press the center tabs of the rotor and lift upwards to remove.



### Operation:

- Attach the power cord and place the power switch into the on "I" position.
  - Open the lid by pressing down on it and load your samples into the included rotor. Always ensure a balanced load (Please see the following section, **loading the Rotor**, for details.)
  - Close the lid by pressing down and set your speed and time using the panel buttons
  - **Rpm and rcf conversion can be toggled by pressing the speed up and down buttons simultaneously for 3 seconds.**
  - Press "start/stop" to begin the run
  - Press "start/stop" during a run to end it prematurely.
  - When the desired run time is completed, or the run is stopped by the user, the rotor quickly brakes to a stop and the samples can be retrieved.
- Mini Fuge Mode**
- Press the time "down" arrows until the display shows "00".
  - Press the time "down" arrow 5 times until the display reads "--". This will enter "mini fuge" mode.

- When in “mini fuge” mode, the centrifuge will start when the lid is closed and stop when the lid is opened
- To exit, press the time “up” arrow once to exit “- -” in the display. You will be in standard mode.

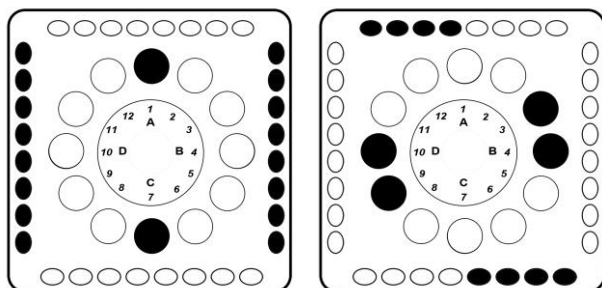
 **NEVER Attempt:** to remove samples until the rotor has come to a complete stop.

### Loading the Rotor:

To ensure safe operation and long life of the instrument, samples must always be loaded into the rotor in a balanced fashion.

Tubes and strips must always be loaded symmetrically across from one another and contain the same volume of liquid. See below:

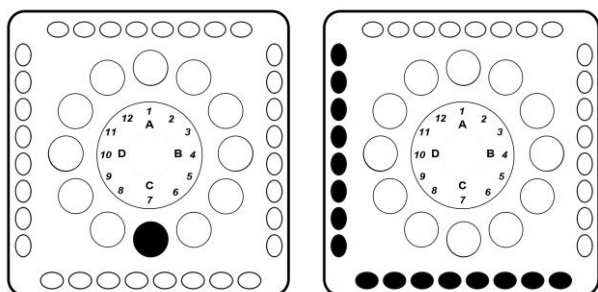
### Examples of properly balanced rotors:



 Represents an empty position

 Represents a loaded position

### Examples of improperly balanced rotors:



 Represents an empty position

 Represents a loaded position

### Cleaning and Maintenance:

The centrifuge rotor can be removed for cleaning. Once removed, the rotor can be cleaned with isopropyl alcohol or can be sterilized in an autoclave at 121°C for 20 minutes.

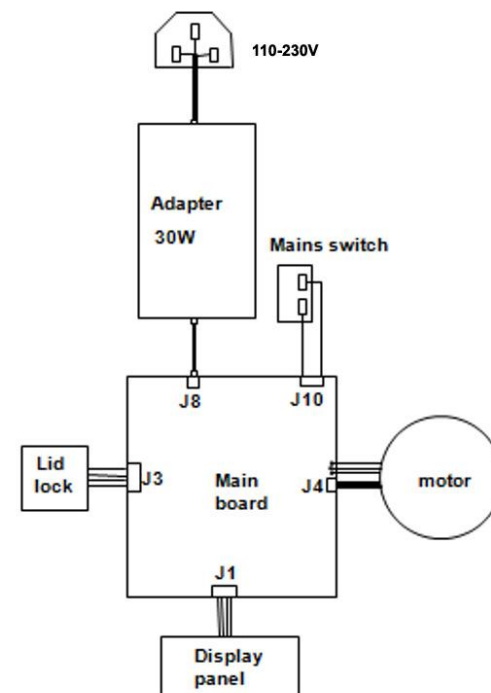
The rotor and the outside of centrifuge should be cleaned regularly with a moist cloth. Disconnect the centrifuge from the mains supply, remove the rotor and clean it separately. Only neutral agents may be used for cleaning.

Please check the rotor and especially the rotor bores regularly for deposits or damage, then reinsert the rotor securely.

### Troubleshooting:

| Error.                  | Cause                                                                                                                                                                                   | Solution                                                                                                  |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| E01                     | 1.Check the transparent lid is tightly secured, or if the lock is worn and the lid is not closed properly or automatically springs open.<br>2.The door cover switch is in poor contact. | 1.Re-Connect the power, close the lid<br>2. Contact the manufacturer                                      |
| E02                     | 1.The lid is opened during operation.<br>2.The lid switch is in poor contact                                                                                                            | 1.Power Off and waiting 1 minute and restart.<br>2. Contact the manufacturer                              |
| E10                     | 1. Motor damaged.<br>2. Motor test failure.                                                                                                                                             | 1.Power Off and waiting 1minute and restart.<br>2. Contact the manufacturer                               |
| Lid can't be opened.    | 1.Check something was below the pressing plate.<br>2.Check the lid triangle button damaged or not .                                                                                     | 1.Remove the foreign matter<br>2.Replace the transparent lid<br>3. Contact the manufacturer               |
| Large noise             | 1.Check the rotor if was tightly locked?<br>2.Check the loading if was symmetrical balance                                                                                              | 1.Fix the rotor fit<br>2.Loading should be Balanced by weight and position<br>3. Contact the manufacturer |
| LCD window not lighting | 1 No power                                                                                                                                                                              | 1.Re-Connect the power or contact the manufacturer                                                        |

### Wiring Diagram:



### Service and Contact:

In the event that service or technical support is required, please contact Benchmark Scientific by email: [info@benchmarkscientific.com](mailto:info@benchmarkscientific.com) or phone at 908-769-5555.