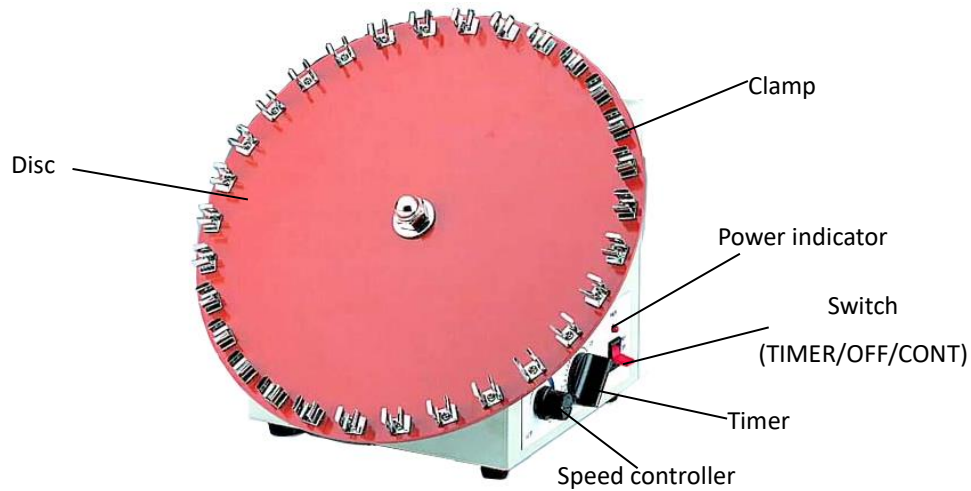


INSTRUCTION MANUAL FOR SUSPENSION MIXER SM-3000



Warnings:

- * Do not remove the mixer during operation.
- * Place the mixer securely away from the edge of bench to avoid the mixer falling off the bench top.
- * Do not disassemble the mixer by yourself. In the event of a malfunction, the mixer should be repaired by a qualified technician. Before repairing, turn off the power.

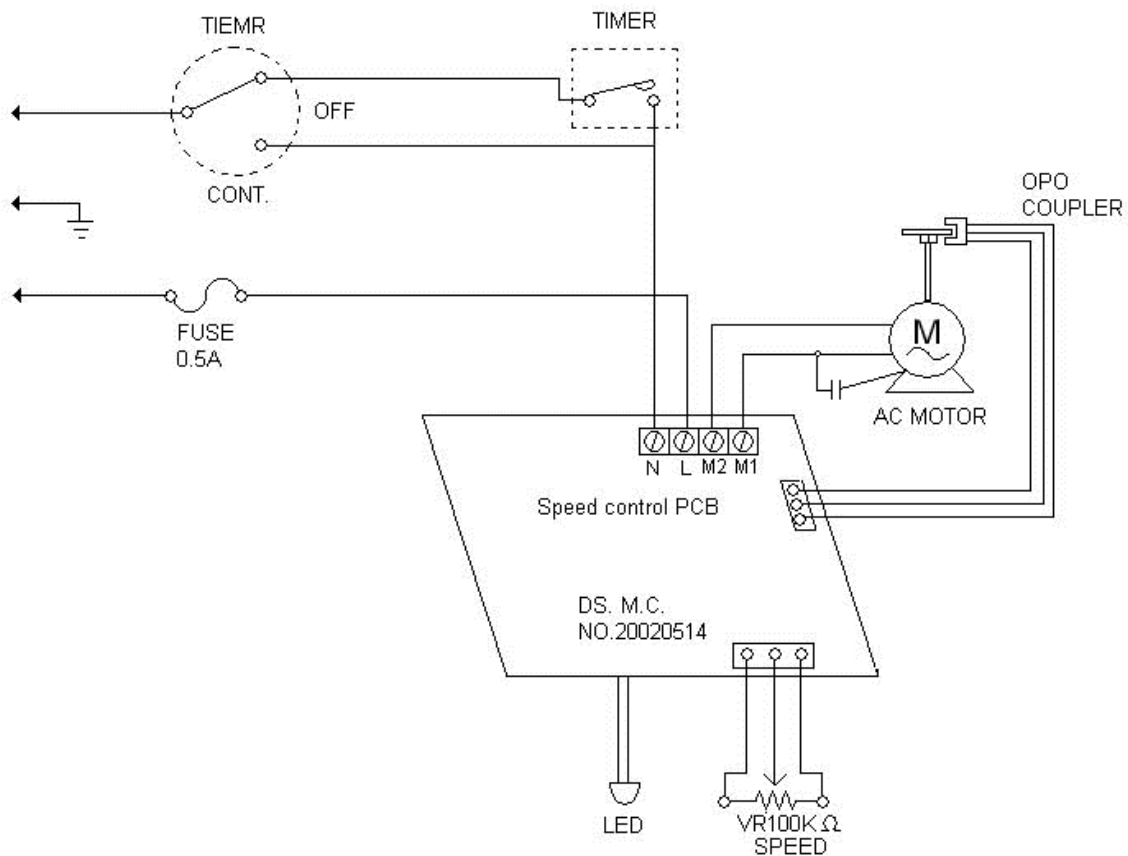
Steps:

1. Place the mixer on a flat and stable bench top. Plug the mixer into a properly grounded outlet which corresponds with the electrical requirements on the label back on machine.
2. Using the clamps on the disc to fix the test tubes.
3. Select the switch model. You can place the 'Switch' at 'TIMER', 'OFF', or 'CONT' position. When the 'Switch' is at 'TIMER' or 'CONT' position, the 'Power indicator' lights.
 - 3.1 If the Timer mode is selected, you can turn the 'Timer' to a required scale. There is a bell sound to be heard when the setting time is end.
 - * How to set the 'Timer' correctly?
Turn the 'Timer' over the required scale, then return the time calibration as a required scale. (For instance, you need 5 minutes for rotation, but you need to wind to 7 or 8 minute scale at first, then return back to 5 minute scale.)
 - 3.2 If the 'CONT' mode is selected, the rotator will rotate continuously.
 - 3.3 If the 'OFF' mode is selected, the power will be cut off.
4. Turn the 'Speed controller' to a desired setting.

Maintenance and care:

Keep the machine clean all the time, so no routine maintenance is required. Cleaning can be done with a damp cloth. Avoid the use of solvents as they may damage the machine housing.

Circuit Diagram



Troubleshooting Guide

Caution: Always disconnect the power cord before troubleshooting.

Trouble	Cause	Remedy
Instrument inoperative	Power cord not connected to outlet.	Plug in the power cord.
	Dead power output.	Change to different output.
	Fuse blown.	Change a new fuse.
	Defective electronic component.	Contact your distributor for repair.
Disc doesn't rotate	Power is not on.	Place the switch at 'Timer' or 'ON' position.
	Belt is not broken.	Contact your distributor for repair.
	PC board is broken	Contact your distributor for repair.
	Motor is broken.	Contact your distributor for repair.
Disc keep rotating when time is up	PC board is broken.	Contact your distributor for repair.
Speed is abnormal	PC board is broken.	Contact your distributor for repair.
Power indicator can not light up	The wiring of PC board and the power indicator is not well.	Contact your distributor for repair.
	The power indicator is broken.	Contact your distributor for repair.
Timer is not accurate	Timer is not set by the correct procedures.	Read the operation manual and set it again.
	Timer is broken.	Contact your distributor for repair.