

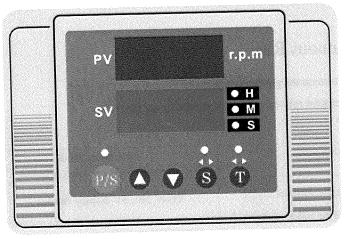
INSTRUCTION MANUAL FOR LABEC SHAKERS

Laboratory Equipment Pty Ltd
"Proudly Australian Owned and Operated."
26 Farr Street, Marrickville NSW 2204
Phone +61 02 95602811 Fax +61 02 95606131
www.labec.com.au

Contents

Description	Page
1. Panel, Keys and Displays	3
2. Operation	4
2.1 Continuous Run	
2.2 Timed Run	
3. Parameter Setting	5
3.1 Setting the Allowed Speed	
3.2 Lock	
4. Troubleshooting Guide	6
5. Spare Part List	7
6. General Maintenance	7
7. Warranty Card	8

1. Panel, Keys and Displays



Symbols	Description/Function
PV	Display actual RPM (revolutions per minute)
SV	Display setting RPM or TIME
	Hour indicator Lamp
• M	Minute indicator Lamp
• S	Second indicator Lamp
P/S	To suspend / start working Indicator light on when suspend. Press for 5 seconds to power on/off
A	To increase the value of digits.
•	To decrease the value of digits.
ŝ	Setting speed / parameter
Ů	Timing setting Locking keys

2. Operation:

2.1 For a continuous Run

Press and hold (PS) to turn on the power switch.

PV display shows the present rpm value and SV shows the set rpm value.

Default rpm value: 100

At operation mode	At suspend mode Indicator light on when suspend.
Press ▲ to increase the value of digits. Press ▼ to decrease the value of digits.	Press S, SV display flashes Press ▲ to increase the value of digits.
	Press ▼ to decrease the value of digits. Press ⑤ to store the value.

2.2 For a Timed Run

Press so to suspend

Press T to set timing, indicator light on.

Use the appropriate \blacktriangle , \blacktriangledown to change to your desired set time in hours, minutes and seconds and press T to lock in the value.

Press (%) to start.

During timer mode, press \bigcirc to display RPM and \bigcirc to display remaining time

4

3. Setting parameter

3.1 Setting the Allowed Speed

Press and hold ® to enter parameter setup, if display "LOCK" please refers to 3.2 to unlock it. Use the S to change Lo or Hi or Adj

Use the appropriate \blacktriangle , \blacktriangledown to change the value to your desired settable RPM.

Lo - Set lowest speed (default value: 20 RPM)

-Set highest value (default value: 250 RPM)

用力」 - Adjust inaccuracy

3.2 Lock

Press and hold T to enter parameter $\angle D \Box F$

nanE - Unlock (default)

- Set parameter to lock (Please unlock if need to change ® parameter value) 5EŁ

ALL - Set all keys to lock (Except for 🙉 key, no key is operative. Displays Lock)

4. Troubleshooting Guide

Problem	Possible Cause	Remedy
Signal lamp lights, but	1. Coil of motor is broken	Replace motor.
motor does not turn.	2. Speed control PCB is defective.	Replace speed control board.
	3. Door safety switch is disconnected.	Check and replace switch.
	4. Pulley belt is loose and belt has	Tighten pulley, reinstall belt and
	fallen off.	adjust its tension.
	5. Drive counter weight is loose.	Remove platform and tighten counter
		weight nut.
Motor is noisy.	Bearing(s) are old, polluted or	Replace motor.
•	oxygenated.	
Platform is noisy.	1. Load is not balanced.	Balance load.
·	2. Platform is not secured.	Tighten screws.
	3. Flasks are loose in clamps.	Bend each arm of clamp inwards.
Shaker is wobbly	RPM is set too high or too low.	Operate at a lower speed that is
•		acceptable or make sure load is
		evenly distributed.
Speed cannot be controlled	1. Speed control PC board is defective.	Replace speed control board.
1	2. Power switch is off.	Turn switch on.

5. Spare Part List

NO.	Item No.	Description
1.	F044-41K25RA-A	Motor
2.	F363-RPM-1	Speed motherboard
3.	F363-RPM-2	RPM display board
4.	F048-K23	Belt

6. General Maintenance

- 1. Wipe machine with wet cloth first then wipe with dry cloth again every time after using. Please clean it with neutral lotion if there is any dirt.
- 2. Please plug out for not using machine for a long time.
- 3. Please don't put overweight article on the shelf to extend its service life.
- 4. When shaking, any liquid flowing from machine please wipe off immediately.
- 5. If possible, do not change default value to avoid parameter error.