

INSTRUCTION MANUAL



Multi-purpose/ Large Capacity, High Speed Centrifuge

ScanSpeed Model 1736R/1096R

CE

Cat. No. : 701331





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1 MEANING OF SYMBOLS & SAFETY PRECAUTIONS

1.1 Meaning of Symbols

1.1.1 Symbols on the instrument

Symbol	Meaning	Symbol Meaning
\triangle	Attention and warning.	Attention and warning for electric shock.
CAUTION	Operate with all buckets mounted. Insert tubes symmetrically. Assure the roibr locked safely with a nut or a T tool. Watch out for your hands.	Attention and warning for correct way of sample balancing in the rotor. Attention and warning for rotor coupling. Attention and warning for door opening and
		closing.

1.1.2 Symbols in this document

Symbol	Meaning	Symbol	Meaning
<u></u> ♠	This symbol refers to safety relevant warnings and indicates possible dangerous outcomes.		Note. This symbol refers to the important reminder.

1.2 Safety Precautions

Before using the instrument, please read this operation manual to ensure correct usage. Incorrect handling of the instrument could possibly result in personal injury or physical damage on the instrument or its accessories.

- 1. ALWAYS locate the instrument on a flat, rigid and stable floor capable of withstanding the weight of the instrument and its spinning operation.
- 2. ALWAYS make a safety zone of 30 cm around the centrifuge to indicate that neither hazardous materials nor persons should be permitted within the area during operation.
 - ✓ ALWAYS position the instrument with enough space on each side of instrument to ensure proper air circulation.
- ALWAYS install the instrument within a temperature and humidity controlled environment.
 (Permissible ambient temperature: +5°C ~ +35 °C, Relative humidity: ≤ 85%)
- 4. Before connecting the power, check the rated voltage.



- 5. Should not use unapproved rotors and accessories.
 - ✓ Only use rotors from LABOGENE APS Co., Ltd. with appropriate centrifugal tubes and suitable adaptors to embrace sample containers tightly enough inside rotors.
- 6. Before operating the instrument, check if the rotor and the rotor lid are securely fastened.
 - ✓ Should operate the instrument with a rotor properly installed and secured to the motor shaft.
- 7. Mount the rotor on the motor shaft properly, check it with spinning manually.
- 8. Do not stop the rotor by touching with hand during the instrument is running.
- 9. Emergency door open should be performed only when spinning is completely stopped.
- 10. Should not exceed the rated speed or specific gravity. Samples whose density is greater than 1.2g/ml must have reduced maximum rotational speed to avoid rotor failure.
- 11. The sample content should not exceed 80% of total capacity of a tube. Otherwise, it would cause spillage of sample fluid and even the tube breakage.
- 12. ALWAYS load the tubes symmetrically with evenly weighted samples to avoid rotor imbalance. If necessary, use the water blank to counterbalance the unpaired sample.
- 13. The operation speed should not exceed the highest value of the individual guaranteed gforces of each centrifuge, rotor, bucket or adaptors and sample container, especially the guaranteed g-force of sample container should not be neglected.
- 14. The rotors should be cleaned and kept dry after every use for longer life and safety.
- 15. ALWAYS disconnect the power supply prior to maintenance care and service to avoid electrical shock.
- 16. ALWAYS use proven disinfection procedures after centrifuging biohazardous materials.
- 17. Should not centrifuge flammable, toxic, radioactive, explosive, or corrosive materials.
- 18. When it is necessary to use toxic or radioactive materials or pathogenic micro-organisms

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which belong to the Risk Group II of WHO: "Laboratory Bio- safety Manual," should follow national regulations.

✓ Do not place dangerous materials within 30 cm distance around the instrume nt, and that is also recommended by IEC 61010-2-020.



- ✓ Use the emergency door open function only when the door button on the cont rol panel is dumb under the condition of complete stop of rotor running.
- ✓ Never try to open or move the instrument if it is not completely stopped.



2 PRODUCT DESCRIPTION & TECHNICAL SPECIFICATIONS

2.1 Product Description



1 Door

- 2 Power Socket
- 3 Display & Control Panel

Caster

- 4 Power Switch
- 5 Manual Door Opening Hole





2.2 Technical Specifications

Max.RPM/RCF	Fixed angle	17,000 rpm / 32,310 xg	10,000 rpm / 14,981 xg	
	Swing out	4,000 rpm / 3,134 xg	5,000 rpm / 6,222 xg	
May canacity	Fixed angle	6 x 500 ml	6 x 500 ml	
Max. capacity	Swing out	4 x 250 ml	4 x 1,400 ml	
Temp. rar	nge(°C)	-20 ~ +40	-10 ~ +40	
FAST COC	L button	Yes	Yes	
Time co	ontrol	Timed < 10 hr or continuous		
RPM/RCF c	onversion	Yes		
Noise lev	el (dB)	≤56		
Acc/E)ec	9/10 steps		
Program r	nemory	100		
Rotor Iden	tification	Automation		
Imbalance	cutout	Yes		
Displ	ay	Blue LCD		
Safety li	d lock	Yes		
Lid drop pr	otection	Yes		
Power supp	oly(V/Hz)	220/50~60 (110V optional)		
Power requ	uirement	2,500 VA	3 KVA	
Dimension(W x	D x H, mm)	473 x 600 x 840	643 x 762 x 850	
Weight without rotor (Kg)		110	180	

This instrument has following functions for safety.

- 1. Automatic rotor identification function.
- 2. Automatic detection and alarms for imbalance, excess speed and heating.
- 3. Automatic door lock function.

3 PREINSTALLATION REQUIREMENTS.

3.1 Environmental Requirement

- 1. Install the instrument on the flat and rigid floor. If you place the centrifuge on the slopping area, the motor shaft might be distorted by the rotor weight and centrifugal force.
- 2. Install the instrument about 30cm away from the wall for the air circulation. It is also recommended to install the instrument at the dustless place as much as possible.
- 3. Install the instrument at the place with appropriate temperature and humidity. It has to be maintained at the proper temperature & humidity. (Permissible ambient temperature: +5°C



- +35 °C, Relative humidity: 30% ~ 85%).
- 4. Install the instrument at the place without any kinds of corrosive gases.

3.2 Electricity Requirement

- 1. Check the proper voltage of your instrument and connect to adequate power outlet.
- 2. If the power input is more than +/- 10% of the recommended voltage or fluctuates frequently, it may cause malfunction of the instrument and often result serious damage.

3.3 Unpacking

- 1. Until the plastic banding over the paper box and get rid of box from the instrument main body.
- 2. Unwrap the vinyl coat surrounding the main body.
- 3. Place the instrument on a proper place by moving instrument's wheel.
- 4. Removal of Safety Padding

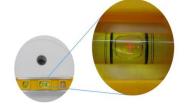
4 INSTALLATION

4.1 Balance Adjustment

Imbalancing of the instrument itself causes vibration, noise and error during operation. Check the level of the floor surface with a Bubble Leveller before installation.

Action

After locating the instrument on the solid and flat floor, check the horizontality with a Bubble Leveller.



- 1. Place the Bubble Leveller on top of the instrument.
 - > Try to locate all bubbles in the centre of the Bubble Leveller with rotating the red gear which is in caster of the instrument.
- Adjust the height of four-wheel, which is at the bottom of the instrument, with rotating the red gear (which is in caster of the instrument) for the first balance adjustment. (For the final balance adjustment, please refer to 4-
 - 4. Balance Adjustment-Final)
 - For fixing a wheel: rotate the red gear counter clockwise with a spanner
 - For loosening a wheel: rotate the red gear clockwise with a spanner



4.2 Power On/Off and Door Release

Action



4.2.1 Power On/Off

- 1. After connecting the AC Power cord at the power socket on the right back of the instrument, turn on the Earth leakage Breaker Switch.
 - Check the proper power.
- 2. Turn on the instrument by pressing a switch on the right side of the instrument.
 - With beeping sound, right before setting value is displayed.
 - The default values are Max. rpm, 10 min, ACC 7, DEC 7 and 25°C.

10000_

TEMP ACC





4.2.2 Door Release

- 1. For opening the door, touch the [DOOR] button.
 - Should touch the [DOOR] button when the door is closed (Door LED shows off)
 - > Close the door until hearing clank shut.
 - > When the door is opened, the door LED turns on.



- ✓ If the door is opened, the instrument could not be operated even with pressing the 'Start' button.
- ✓ For operational safety, this instrument has the automatic rotor recognition function.
- ✓ When you supply the power, "Rotor Scan…" will be appeared. If the rotor is absent, the "Error 9" will be appeared. This message will be cleared after rotor coupling and running.
- ✓ The door is not automatically opened after finishing operation to keep the sample at proper temperature.
- ✓ Power Failure: If there is any power failure during operation, door is not opened wit h 'Door' button. Door can be opened only when the operation is completely stopped and the power is on again. If you want to open the door at the power failure, please refer to '5-10. Emergency Door Open'.

4.3 4-3. Rotor Coupling and Disassembling

Action

1. Before coupling a rotor, clean the motor shaft and rotor with soft dry towel.





4.3.1 Swing-Out Rotor

- 1. Mount a proper rotor into the motor shaft.
- 2. Grasp the rotor with one hand, and place Rotor Locking Tool at the centre hole of the rotor.
 - ➤ To assemble the rotor: Rotate the Rotor Locking Tool clockwise until tightly assembled.
 - > To disassemble the rotor: Rotate the Rotor Locking Tool counter clockwise.
- 3. Hang the appropriate buckets into the rotor.
 - Load the identical bucket at each wing for safety. (Do not leave a vacant wing without bucket. All wings should hold identical bucket).

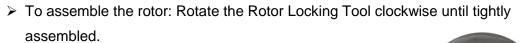


- Remove dirt and water drop around hooks of rotor and hanging part of bucket.
- 4. Spin the rotor manually to check if bucket swinging is free enough and ever. If they do not swing freely, apply the Lubricant (grease) to the linking area.

4.3.2 Fixed Angle Rotor

Mount a proper rotor into the motor shaft.
 Grasp the rotor with one hand, and place Rotor Locking Tool at

the centre hole of the rotor.



- To disassemble the rotor: Rotate the Rotor Locking Tool counter clockwise
- 2. To close of the rotor lid, rotate the rotor lid nut clockwise.
 - For opening lid: rotate the rotor lid nut counter clockwise.



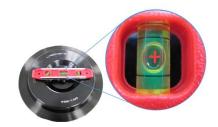
When you run a fixed angle rotor, make sure that the rotor lid is tightly closed. If you don't close the rotor lid completely, it will be crushed.

For operational safety, this instrument has the automatic rotor recognition function.

4.4 Balance Adjustment – Final

 Mount the rotor and place the Bubble Leveller on the middle of the top of a rotor.





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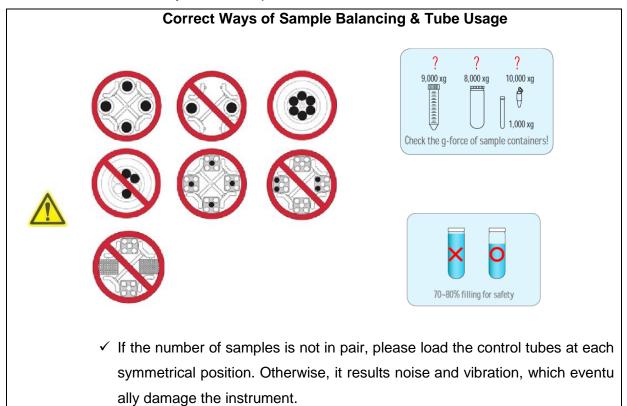
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- Confirm that air bubbles of all three windows of the Bubble Leveller are within the black lines.
- To adjust the balance status, rotate the red coloured ring at the wheel caster clockwise or counter clockwise until the device is well balanced.



4.5 Positioning of Sample Tubes

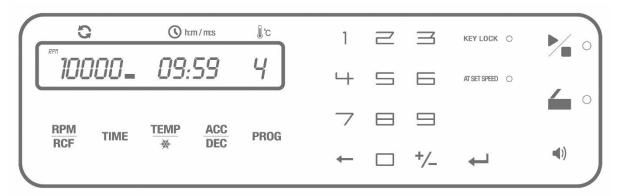
- 1. Before loading sample tubes, check the water drop or dirt in the rotor hole or inner adaptor.
 - ➤ If there is a water drop or dirt in the rotor hole or inner adaptor, remove it with soft dry cloth.
- 2. Tubes should be placed in the rotor with same number of samples at symmetrical positions.
 - Only use appropriate centrifugal tubes and do not exceed the speed beyond the tube's max. g-force.
 - ➤ For safety, fill the sample for 70~80% in the tubes.



For safety, the 'Imbalance Cut Off' function will be occurred, if there is imbalance of loading tubes (Error 8, Imbalance error). Please refer to 7. Trouble Shooting.



5 OPERATION



5.1 Key Functions of Control Panel

□ RPM/RCF For automatic conversion of RPM/RCF and to set the speed

□ TIME Use to set time, available range up to 9 hour 59 min (00:00:

continuous)

 \Box Temp Use to set temperature (-20°C ~ 40°C for 1736R/ -10°C ~ 40°C for

1096R).

Use to reach rapid refrigeration up to the setting temperature. (touch

for more than 2 seconds for 'Fast Cool').

□ ACC/DEC Use to set the acceleration & deceleration level from 1 to 9 steps. '0' in

deceleration step means natural deceleration. Larger number means

faster acceleration or deceleration.

PROG
Use to save a set of setting values or recall the saved program

number.

☐ KEY LOCK Use for key lock mode.

□ AT SET SPEED Use to count the run time once the actual run speed reaches to the set

speed value.

□ Enter Use for completion of data setting.

□ Start/Stop Use to start and stop operation.

□ Door Use to open instrument lid.

□ Sound Use to set the number of sound and volume.

5.2 Setting the RPM/RCF Value

Action

5.2.1 Setting the RPM/RCF Value



- 1. Touch the [RPM/ RCF] button once.
 - RPM MODE is generated with touching a [RPM/ RCF] button once.



- > RCF MODE is generated with touching the [RPM/ RCF] button twice.
- > RPM/ RCF LED is flickering at the display window.
- 2. Touch the number buttons to change input value.
 - If you do not touch the number button for15 seconds, the setting mode is cleared.



- 3. Touch the [Enter] button to complete the setting.
 - Touch [Enter] to save the setting value.
 - ➤ If wrong number is entered, touch [←] button and change the value again

5.3 Setting the Time Value

Action

5.3.1 Setting the AT SET SPEED mode

- Touch the [AT SET SPEED] button once or twi
 ce
 - 'NET' or 'ALL' appears on the display window.





- NET: Time display begins to count the run time once the actual run speed reaches to the set speed value and stops when the deceleration begins.
- ALL: Time display begins to count the run time when the acceleration begins and



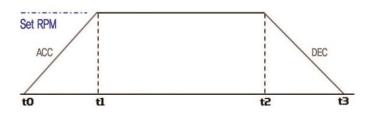
2. Touch the [Enter] button to complete the setting

stops when the deceleration



AT SET SPEED Mode

For exact time control, this instrument can be set with AT SET SPEED mode which counts supports the run time once the actual run speed reaches to the set speed value and stops when the deceleration begins.



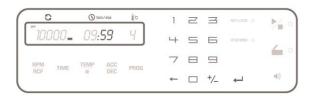
*[AT SET SPEED] lamp turns on: From t1 to t2 *[AT SET SPEED] lamp turns off: From t0 to t2

5.3.2 Setting the 'MIN/ HOUR' Value

Action

- ✓ Time is down-counted after starting centrifugation.
 - 1. Touch the [TIME] button once.
 - 'MIN' value on LED is flickering.
 - Touch the number buttons to change the minute value.
 - If you do not touch the number button for 15 seconds, the setting mode is cleared.
 - ➤ If wrong number is entered, touch [←] button and change the value again.
 - Touch the [Enter] button to pass the 'HOUR' value setting.
 - 4. Touch the number buttons to change the hour value.
 - If you do not touch the number button for15 seconds, the setting mode is cleared.
 - If wrong number is entered, touch [←] button and change the value again.
 - 5. Touch the [Enter] button to complete the setting.









5.4 Setting Temperature and Fast Cool

Action

5.4.1 Setting Temperature

▶ 1736R: Temperature can be set from -20°C to



40°C

- ▶ 1096R: Temperature can be set from -10°C to 40°C
- 1. Touch the [TEMP] button. Default or latest temperature value blinks on the display window.
- 2. Touch the number buttons to change temperature.
 - If you touch [+/-] button, you can set -(minus) degr ee values.
 - If you touch [+/-] button twice, -(minus) degree is cl eared.



- > If you do not touch the number button for 15 seconds, the setting mode is cleared.
- \succ If wrong number is entered, touch [\leftarrow] button and change the value again.
- 3. Touch the [Enter] button to complete setting.

5.4.2 Fast Cool

- 1. Setting the temperature. (Please refer to 5-4-1. Setting Temperature)
- 2. After installation of the rotor and closing the door of instrument, touch the [TEMP] button for more than 2 seconds.
 - For fast cooling, the instrument is refrigerated down to the set temperature in a short time or setting time. During the fast cooling, the rotor runs at low speed (1,000 rpm).
 - > The passed time is showed on the display window.



- ✓ If you'd like to load your sample tubes before pressing the [Fast Cool] button, please check if the sample is safe during spinning at 1,000 rpm.
- ✓ Before starting Fast Cooling, please check the rotor coupling and symmetry of sample tubes.

5.5 Acceleration / Deceleration

Use the adjustment function of acceleration (level: 1~9) & deceleration levels (level: 0~9) to protect sensitive samples.

Action





2 3

2 3

4

5 6

8 9

← □ +/-

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- 1. Touch [ACC/DEC] button.
- 2. Touch the number buttons to change input ACC value.
 - Input the desired level of ACC from 1 to 9. (Level 9: The fastest acceleration)
 - If you do not touch the number button for 15 seconds, the setting mode is cleared.
 - If wrong number is entered, touch [←] button and change the value again.
 - and change the value again.

 Fix the ACC level by touching [Enter] button.



99

- 4. Touch the number buttons to change input DEC value.
 - Input the desired level of DEC from 0 to 9. (Level 0: Natural deceleration / Level 9: The fastest deceleration)
 - If you do not touch the number button for 15 seconds, the setting mode is cleared.
 - If wrong number is entered, touch [←] button and change the value again.
- 5. Fix the DEC level by touching [Enter] button.

5.6 Program Saving & Recalling

Action

5.6.1 Program Saving

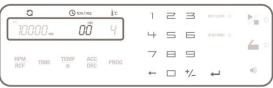
- 1. Set parameters. (Refer to 5-2 ~ 5-5)
- 2. Touch the [PROG] button twice.
 - 'SAVE' is turned on the display window.
- Touch the number buttons to change input Program number.
 - If you do not touch the number button for 15 seconds, the setting mode is cleared.
 - > Save up to 100 programs. (Program numbers from 00 to 99).
 - ▶ If wrong number is entered, touch [←] button and change the value again.
- 4. Touch the [Enter] button to complete the saving.

5.6.2 Program Recalling

- To recall the saved program, touch the [PROG] button once.
 - > 'CALL' is turned on the display window.



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- Touch the number buttons to select program number you want to recall and then touch the [Enter] button.
 - If you do not touch the number button for 15 seconds, the setting mode is cleared.
 - ➢ If wrong number is entered, touch [←] button and change the value again.



5.7 Start/Stop

Action

5.7.1 Start

- After setting RPM/RCF and Time, touch [Start/Stop] butto
 n.
 - > During running, a 'Start LED' is turned on.
 - > The instrument is running only when the door is closed.
 - When you touch the [Enter] button during operation, display window shows the saved setting parameter s

5.7.2 Stop

 In case of touching the [Start/Stop] button, the operation is stopped.



4

□ +/-

09:59

10000°

When you touch the [Start/Stop] button twice, the operation is stopped with DEC 9.

5.8 Setting the Key Lock Mode

Action

- 1. Touch [KEY LOCK] button.
 - All input buttons except for [KEY LOCK] button can be locked for protocol security (lock: LED on/ unlock: LED off)



> If you touch the [KEY LOCK] button again in the key lock mode, the key lock mode is c leared.



5.9 Setting Volume of Sound

Action



5.9.1 Setting the Volume of Finishing Sound

- 1. Touch [Sound] button.
- 2. Touch the number buttons to change the value for the volume.
- 3. Fix the value by touching [Enter] button.
 - Volume: 0~10 steps (0: silent)

5.10 Emergency Door Open

For emergency door opening, you can use the Emergency Door Open Tool when the instrument is completely stopped. The door can be unlocked manually with the Emergency Door Open Tool through the emergency door opening hole.

Action

- 1. Find the emergency door open hole in the front body of the instrument and take out the white rubber closure.
- 2. Insert the Emergency Door Open Tool into the hole and revolve it counter clockwise until the door is released.







Manual opening should be performed only when spinning is completely stopped. Otherwise, harmful damage will be accompanied to not only operators but samples.

After opening the door manually, it is recommended to wait until normal electricity comes back.

6 MAINTENANCE

6.1 Outer part of Instrument

- 1. Clean the outside of the instrument with dry soft cloth. If necessary, dip the cloth in neutral detergent and clean contaminated area. Keep completely dry after cleaning.
- 2. Do not use any volatile chemicals such as alcohol and benzene, etc.

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- Be careful not to make scratches on the surface of the instrument. The scratches can cause corrosion on the s urface of the instrument.
- ✓ If any rust appears, clean it with neutral detergents and keep dry.

6.2 Chamber

- 1. Keep dry inside the chamber after every use.
- 2. If the chamber is contaminated, dip the cloth in neutral detergent and clean contaminated area.

6.3 Shaft

- 1. Always make special attention to clean the motor shaft to avoid any imbalance problem due to the contaminant s.
- 2. After using the instrument, take out the rotor from the shaft, and clean the shaft with dry soft cloth to keep dry.

6.4 Rotor

- 1. If any parts are contaminated with samples, clean the rotor with soft wet cloth and keep the rotor dry.
- 2. Be careful not to make scratches inside or on the surface of rotors. Any small scratches can cause corrosion of the rotor and big damage to the instrument.
- 3. If you do not use the instrument, keep the rotor separately from the motor shaft and stand it upside down.

6.5 Transportation of Instrument

- 1. If you need to move or ship the instrument, be cautious to protect the motor shaft from any physical impact or tu rbulence.
- 2. Do not mount a rotor in any cases of movement. Fill inside the chamber with proper materials to keep the motor shaft on place and not to be influenced by physical pressure.

7 TROUBLE SHOOTING

7.1 Check List

Symptom	Check List	
Power failure Connect the AC Power cord and make sure that the line is connected between the instrument and power outlet. Check switch is turned on. (Please refer to 4-2. Power On/off Release)		
Can't be started	If the door is not closed completely, the instrument can't run. Check the Door LED on the display window and close the door completely.	



	If the power is out, check the main fuse for the laboratory to supply the power. If it is not solved in shortly, open the door with emergency door
Can't open the door	open tool manually for safety of sample. (Please refer to 5-10.
	Emergency Door Open)
	Remove the dirt at the door latch and then close the door completely
Can't close the door	again. If the door seems not being closed by mechanical reason, please
	contact our service team.
	If the instrument is installed on the unstable floor, please install again on
	the solid flat floor horizontally.
	If the rotor is not coupled appropriately, disassemble the rotor and then
Noise and vibration during	check the appearance of rotor. If you find the damage of rotor,
rupping	immediately discard it. (Please refer to 4-3. Rotor Coupling and
running	Disassembling)
	G/
	Check balances of samples in the rotor. (Please refer to 4-5. Positioning
	of Sample Tubes) and load the same weight of samples symmetrically.

7.2 Error Code

If the instrument shows the error code with beeping sound, press 'STOP' button to stop the beeping sound and press 'Enter' button to release of the error status and make the instrument go to the default setting again.

Error	Possible Causes	Actions
Error 1	RPM Sensor	- Shut off the power supply, and then, turn on the power switch again
		to check the instrument.
		- If the error code shows continuously although you try to operate
		again, please call LaboGene Aps Field Service Engineer.
-	Door	- If the door opens during the instrument running or is troubled in door
		sensor, this message is appeared.
Error 2		-Remove the dirt at the door latch and then close the door completely
EIIUI Z		again. Check the Door LED on the display window. If the error code
		shows continuously, please call LaboGene Aps Field Service
		Engineer.
	Motor Overheating	- If the motor is overheated, this message is appeared.
		-Shut off the power supply for an hour, and then turn on the power
Error 3		switch for checking the instrument.
		- If the error code shows continuously, please call LaboGene Aps Field
		Service Engineer.
Error 4	Low Voltage	- If the power input of Power supply (V/Hz) is 10% less than required
		power, this message is appeared.
		- Shut off the power supply and then check the voltage of the Power
		supply (V/Hz).



		- Use AVR to provide proper power.
Error5		- If the power input of Power supply (V/Hz) is 10% more than required
		power, this message is appeared.
	High Voltage	- Shut off the power supply and then check the voltage of the Power
		supply (V/Hz).
		- Use AVR to provide proper power.
		- If the instrument is spun with over speed, there will be some
Error 6	Over Speed	problems in the overload of motor and the output of motor.
EIIOI 6	Over Speed	- Shut off the power supply, and then, turn on the power switch again
		to check the instrument.
Error 7	Software	- If the installed software has bugs, this message is appeared.
Error 7		- Tuning the firmware (Download)*
	Imbalance	- Check weight-balances of samples (Please refer to 4-5. Positioning of
Error 8	Imbalance	Sample Tubes) and then turn off and on the instrument for checking.
	Rotor ID or RPM Sensor	- If the function of rotor recognition is failed, this message is appeared.
		- This message will be cleared by coupling an appropriate rotor
Error 9		(Please refer to 4-3. Rotor Coupling and Disassembling.)
		- If the error code shows continuously, please call LaboGene Aps Field
		Service Engineer.
	Chamber Temp. Error	- If the instrument is not reached to setting temperature within an hou
Error 11		r, this message is appeared.
		- No user action. Please call LaboGene Aps Field Service Engineer.
	Temp. Sensor Error	- If there is a faulty in the temperature sensing of chamber or over hea
Error 12		ted, this message is appeared.
		- No user action. Please call LaboGene Aps Field Service Engineer.
	Motor Temp. Sensor	- If the motor temperature sensor can't recognize, this message is app
Error 15		eared.
		- No user action. Please call LaboGene Aps Field Service Engineer.
	Comp. Temp. Sensor	- If the temperature of compressor is over heated up, this message is
Error 16		appeared.
		No user action. Please call LaboGene Aps Field Service Engineer.
		- INO USET ACTION. Flease call Laborette Aps Fleid SetVice Engineer.

^{*} Any wire disconnection or tuning of the instrument must be performed only by a service engineer who is authorized by LABOGENE APS Co., Ltd.



8 DECLARATION OF CONFORMITY



Declaration of conformity

We declare under our responsibility, that the following product:

Model: ScanSpeed 1736R High Speed Refrigerated Micro Centrifuge

to which this declaration relates is in conformity with the following standard(s), directives or other normative document(s):

In compliance with:

EN 61010-1 - Safety requirements for electrical equipment for measurement, control and laboratory use - General requirements

EN 61010-2-020 - Safety requirements for electrical equipment, control and laboratory use -Particular requirements for laboratory centrifuges

EN 61000-6-1 - Electromagnetic compatibility - Generic immunity/emission standard

EN ISO 11201 - Acoustics - Noise emitted by machinery and equipment

Following the provisions of:

2006/42/EC - Machinery Directive, as amended

2006/95/EC - Low Voltage Directive, as amended

2004/108/EC - EMC Directive, as amended

2011/65/EU - RoHS Directive

2012/19/EU - WEEE Directive

Allerød, November 2018
Resum Sorans

Rasmus Sørensen QA Manager

LaboGene A/S, Bjarkesvej 5, 3450 Allerød, Denmark

08012013QA

CE





Declaration of conformity

We declare under our responsibility, that the following product:

Model: ScanSpeed 1096R Refrigerated Large Capacity Centrifuge

to which this declaration relates is in conformity with the following standard(s), directives or other normative document(s):

In compliance with:

EN 61010-1 - Safety requirements for electrical equipment for measurement, control and laboratory use - General requirements

EN 61010-2-020 - Safety requirements for electrical equipment, control and laboratory use - Particular requirements for laboratory centrifuges

EN 61000-6-1 - Electromagnetic compatibility - Generic immunity/emission standard

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Allerød, November 2018

Resum Soras

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