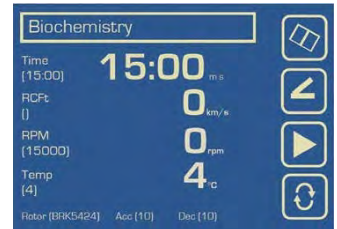


# How to Service

VS1226

Rotor recognition, tachometer, imbalance,  
lid & drive

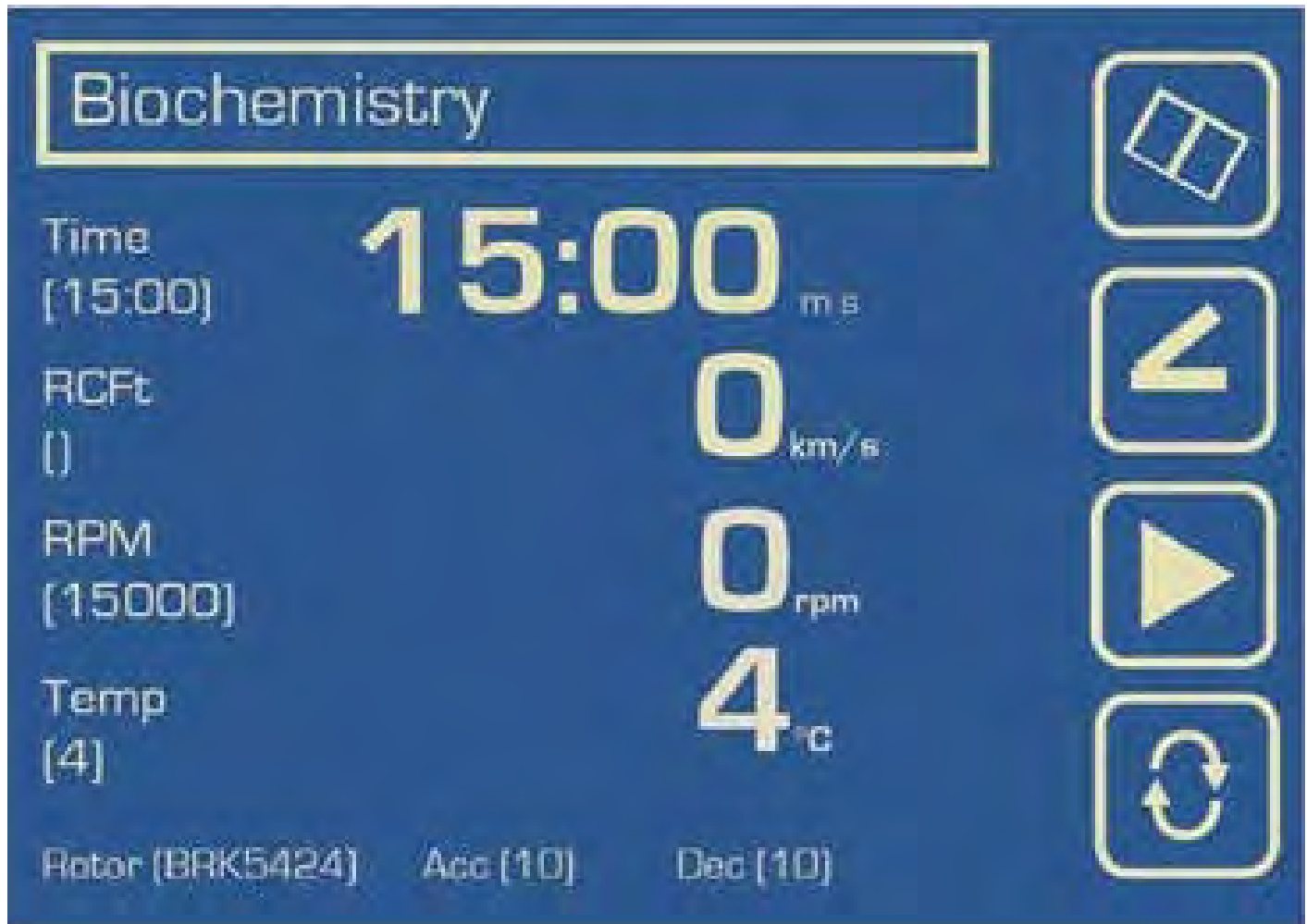


Year 2018 onwards

Refrigerated models



**CENTURION**  
SCIENTIFIC LIMITED



Temp not seen on Ambient models

Ranges that use this Circuit board are

PrO-Research

# What to do

For the following checks and adjustments, always remove the power cord from the Centrifuge.

Cleaning of the bowl and display overlay is required.

Use a bacteria proof type wipe. Do not use bleach or strong cleaning solutions

The following pages show what is required.

## **Rotor recognition.**

Remove the rotor and check its magnets underneath , are all in place by looking at the chart supplied? If not do not use as the unit will go into safety mode 2000 Rpm.

## **Tachometer**

Remove the grill on the underside and clean the tachometer a blast of air is best. Do not use a hard metal brush , be careful and if air is not available use a soft brush NO cleaning solutions .

## **Lid**

Grease the lid latch rotor with a minimum spray of silicon as supplied

## **Lid seals**

Replace the lid seal as shown

## **Lid underseal**

Replace as shown, Note whilst the top cover has been removed check the

**Imbalance sensor** for adjustment

After replacing the top cover/Lid.

## **Refit the power cord and follow the Test procedures (Page 15-21)**

These procedures test all sensors and confirm its use and safety

# Rotor recognition sensor

P 4

Check the sensor is clean  
and wires are intact



S Rotor recognition sensor



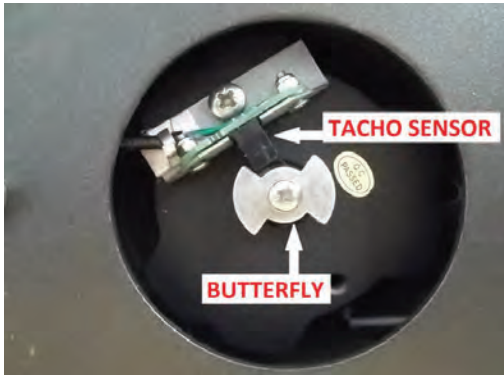
Magnets to underside of  
rotor must match chart on  
previous page designated  
to rotor. If not do not use

# VS1295 only. Magnets per rotor

| Name     | Magnets | Max Capacity           | Max tube size        | Description                  | Max speed |         |
|----------|---------|------------------------|----------------------|------------------------------|-----------|---------|
| BRK5218  | 12      | 24 x 2ml               | 11 x 50mm            | Fixed angle. With sealed lid | 15,000    |         |
| BRK5248  | 11      | 48 x 2.2ml             | 11 x 50mm            | Fixed angle. With sealed lid | 15,000    |         |
| BRK5249  | 11      | 24x2.2ml & 24x0.5ml    | 11x50 & 6x30mm       | Fixed angle. With sealed lid | 15,000    |         |
| BRK5298  | 11      | 8 x PCR strips         | 6 x 40mm             | Fixed angle. With sealed lid | 15,000    |         |
| BRK5424  | 10      | 24 x 2ml               | 11 x 50mm            | Fixed angle. With sealed lid | 15,000    |         |
| BRK5436  | 10      | 36 x 0.5ml             | 8 x 30mm             | Fixed angle. With sealed lid | 15,000    |         |
| BRK5448  | 10      | 48 x 0.2ml             | 6 x 40mm             | Fixed angle. With sealed lid | 15,000    |         |
| BRK5494  | 10      | 4 x PCR strips         | 6 x 40mm             | Fixed angle. With sealed lid | 15,000    |         |
| BRK5463  | 10      | 36 x 2ml               | 11 x 50mm            | Fixed angle. With sealed lid | 15,000    |         |
| BRK5464  | 10      | 18x2ml & 18x0.5ml      | 11x50 & 8x30mm       | Fixed angle. With sealed lid | 15,000    |         |
| BRK5499  | 10      | 2xPCR strips 10x2ml    | 11 x 40mm            | Fixed angle. With sealed lid | 13,200    | MM only |
| BRK5463  | 9       | 36 x 2ml               | 11 x 50mm            | Fixed angle. With sealed lid | 13,200    | MM only |
| BRK5464  | 9       | 18x2ml & 18x0.5ml      | 11x50 & 8x30mm       | Fixed angle. With sealed lid | 13,200    | MM only |
| BRK5401  | 8       | 24xcapillary & 12x2ml  | 2x75mm & 11x40mm     | Haematocrit & Fixed angle    | 13,000    |         |
| BRK5648  | 8       | 48 x 2.2ml             | 11 x 50mm            | Fixed angle. With sealed lid | 13,000    |         |
| BRK5649  | 8       | 24x2.2ml & 24x0.5ml    | 11x50 & 6x30mm       | Fixed angle. With sealed lid | 13,000    |         |
| BRK5698  | 8       | 8 x PCR strips         | 6 x 40mm             | Fixed angle. With sealed lid | 13,000    |         |
| BRK5407  | 7       | 4x15ml & 4x10ml        | 17x120mm & 13x110mm  | Fixed angle. With Sealed Lid | 8,000     |         |
| BRK5540  | 7       | 4xstd or 2xhigh plates | 85 x 128mm           | Microtitor Rotor             | 3,500     |         |
| BRK5740  | 7       | 4xstd or 2xhigh plates | 85 x 128mm           | Microtitor Rotor             | 3,500     |         |
| BRK5404  | 6       | 4 x 50ml               | 30 x 115mm           | Fixed angle. With sealed lid | 6,000     |         |
| BRK5408  | 6       | 8 x 15ml               | 17 x 120mm           | Fixed angle. With sealed lid | 6,000     |         |
| BRK5100  | 6       | 6 x 100ml              | 45 x 125mm           | Fixed angle. With sealed lid | 6,000     |         |
| BRK5406  | 6       | 6 x 50ml               | 30 x 115mm           | Fixed angle. With sealed lid | 6,000     |         |
| BRK5412  | 6       | 12 x 15ml              | 17 x 120mm           | Fixed angle. With sealed lid | 6,000     |         |
| BRK5308  | 6       | 8 x 50ml               | 30 x 115mm           | Fixed angle. With sealed lid | 6,000     |         |
| BRK5324  | 6       | 24 x 15ml              | 17 x 120mm           | Fixed angle. With sealed lid | 6,000     |         |
| BRK5316  | 6       | 16 x 15ml              | 17 x 120mm           | Fixed angle. With sealed lid | 6,000     |         |
| BRK5206  | 5       | 6 x 50ml               | 30 x 115mm           | Fixed angle. With sealed lid | 10,000    |         |
| BRK5212  | 5       | 12 x 15ml              | 17 x 120mm           | Fixed angle. With sealed lid | 10,000    |         |
| BRK5204  | 5       | 4 x 50ml               | 30 x 115mm           | Fixed angle. With sealed lid | 10,000    |         |
| BRK5202  | 5       | 8 x 15ml               | 17 x 120mm           | Fixed angle. With sealed lid | 10,000    |         |
| BRK5434  | 4       | 24 x 15ml              | 17 x 120mm           | Fixed angle.                 | 4,000     |         |
| BRK5431  | 4       | 8 x 50ml               | 30 x 115mm           | Fixed angle                  | 4,000     |         |
| BRK5256  | 4       | 6 x 250ml              | 62 x 130mm           | Fixed angle                  | 10,000    |         |
| BRK3000  | 3       | See below              | See below            | Swing out                    | 4,000     |         |
| BRK3002  | 3       | 4 x 500ml              | 98 x 160mm           | Swing out                    | 4,000     |         |
| BRK3003  | 3       | 4 x 750ml              | 98 x 170mm           | Swing out                    | 4,000     |         |
| BRK3004  | 3       | 4 x 1000ml             | 98 x 180mm           | Swing out                    | 4,000     |         |
| BRK5508S | 2       | 8 x 5ml                | 13 x 82mm            | Swing out                    | 4,000     |         |
| BRK5508M | 2       | 8 x 10ml               | 15 x 115mm           | Swing out                    | 4,000     |         |
| BRK5508L | 2       | 8 x 15ml               | 17 x 120mm           | Swing out                    | 4,000     |         |
| BRK7000  | 2       | 4 x 750ml              | TBA                  | Swing out                    | 4,000     |         |
| BRK5506  | 1       | 4 x 125ml              | 45 x 100mm           | Swing out                    | 4,000     |         |
| BRK1001  | 1       | 4 x 250ml              | 62 x 100mm           | Swing out                    | 4,000     |         |
| BRK5600  | 1       | 4 x 100ml Oil tubes    | Small, Tall & Pear   | Oil Test Swing Out           | 4,000     |         |
| BRK4940  | 0       | 12 x Dual holders      | 0.2 to 6ml           | Cytology Rotor               | 2,500     |         |
| BRK4460  | 0       | 12 x Dual holders      | 0.2 to 6ml           | Cytology Rotor               | 2,000     |         |
| BRK5450  | 0       | 12 x place             | 10 x 75 OR 12 X 75mm | Fixed angle                  | 3,500     |         |

# Tachometer cleaning & adjustment

To check and clean the tachometer sensor turn off the centrifuge via the switch on the rear and unplug it from the mains supply then tip the centrifuge on its side. You will then see a hole in the base of the centrifuge which will give you access to the tacho sensor and butterfly after removing the grill (4 screws)



2021 Style

Make sure that the tacho sensor and butterfly are free from dirt and foreign objects i.e animal hair, tissues etc. Clean with a cotton bud or air blast



Make sure the sensor is at the angle shown.

Make sure the butterfly is firmly fixed to the motor shaft. Tighten if necessary.

NOTE: When the centrifuge is running it draws air in through the grill hole in the bottom. Anything that is near or under the machine can be drawn in.

NOTE. All now have a circular bracket holding the sensor  
The above is for clarity

Tachometer sensors rarely fail, check wiring on solder pads and connection to display board.

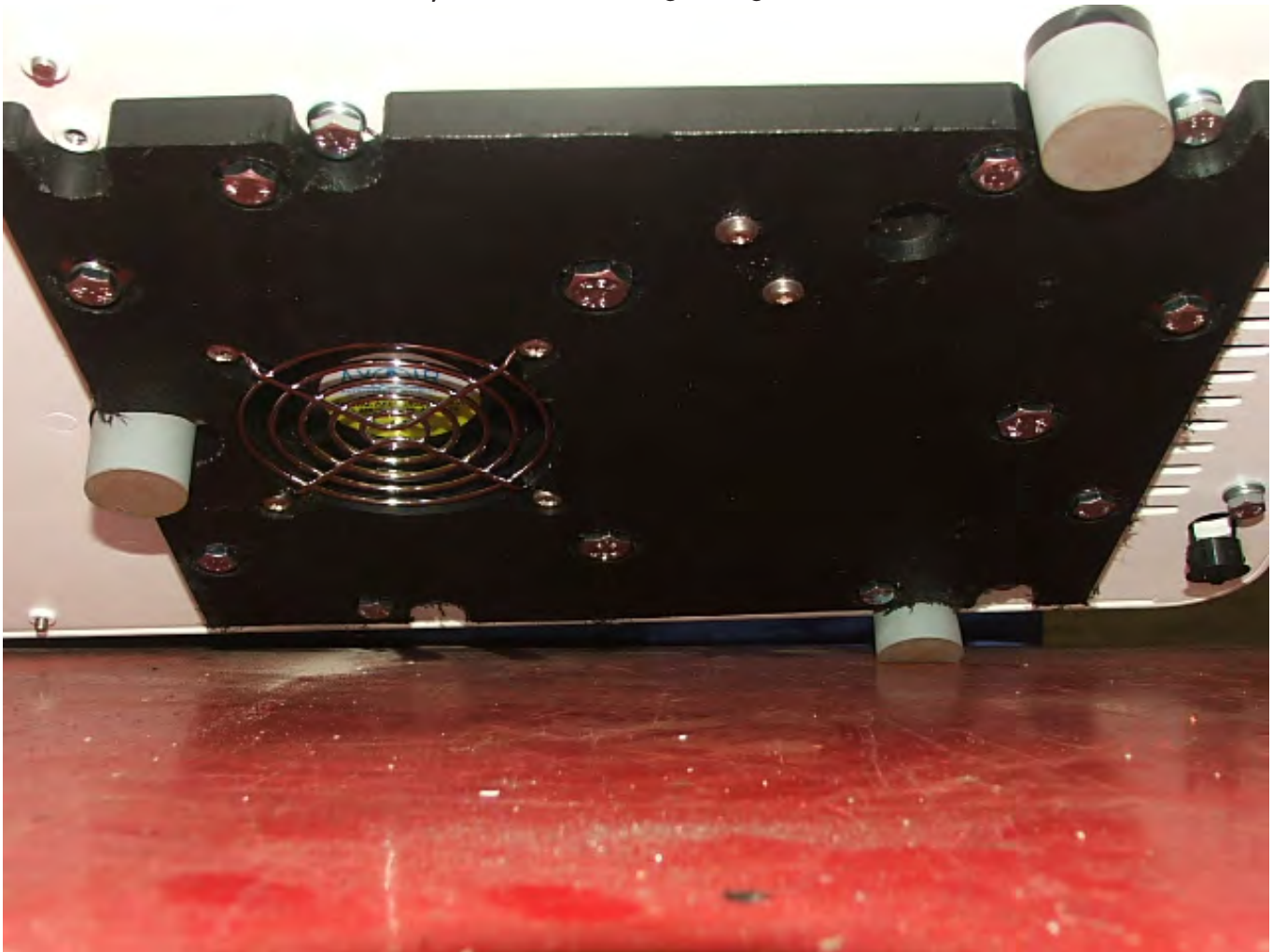
# Refrigerated Tachometer cleaning & adjustment

To check and clean the tachometer sensor turn off the centrifuge via the switch on the rear and unplug it from the mains supply. place the unit between 2 tables so you may gain access underneath.

DO NOT TURN ON ITS SIDE OR OVERTURN

You will then see a hole in the base of the centrifuge which will give you access to the

tacho sensor and butterfly after removing the grill (4 screws)



NOTE: When the centrifuge is running it draws air in through the grill hole in the bottom. Anything that is near or under the machine can be drawn in.

NOTE. All now have a circular bracket holding the sensor  
The above is for clarity

Tachometer sensors rarely fail, check wiring on solder pads and connection to display board.

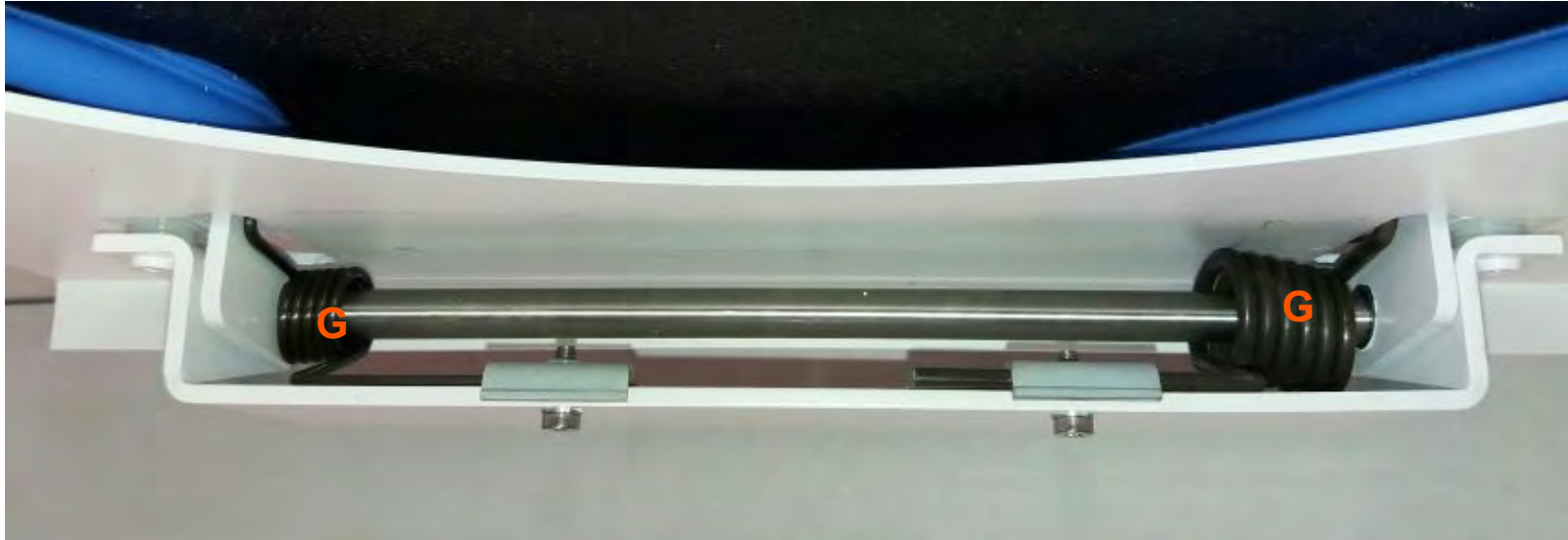
**G** Add a small spray of silicon grease here, as supplied.



## Lid latch position

Note orientation of latch  
Pin position front to rear  
Note height and use of  
washer and spring washer  
ALL Important

# Lid spring lubrication



**G Spray a small amount of provided silicon grease here**

## **Note**

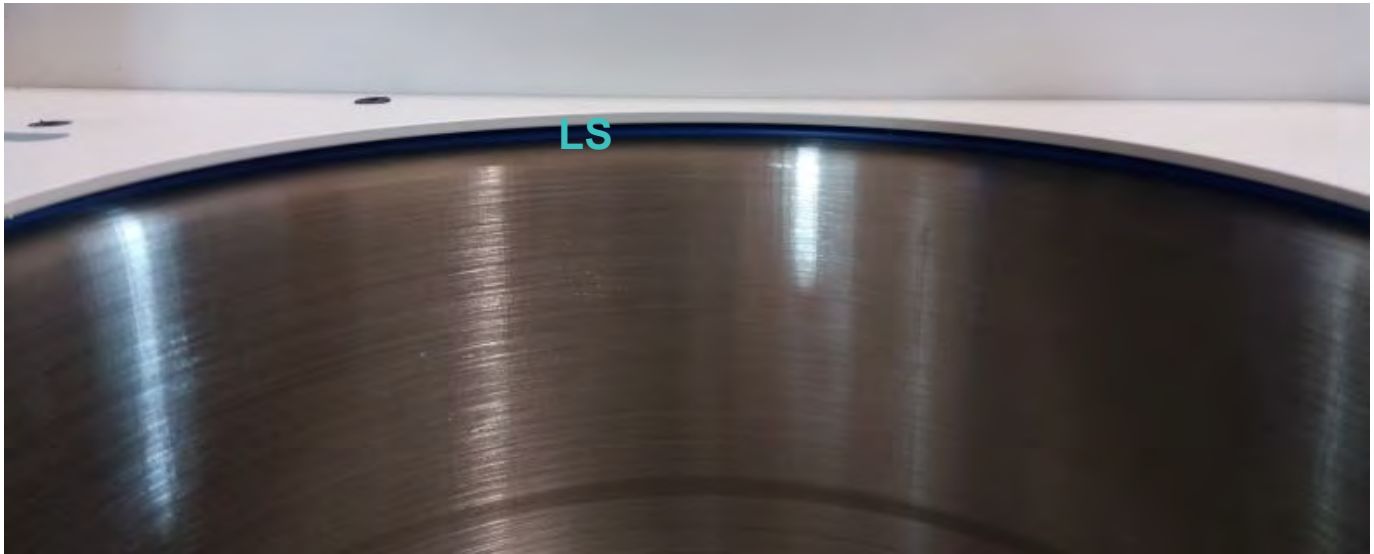
You can spray through the top obround down onto the spring



Remove the lid seal by pulling out at the rear section

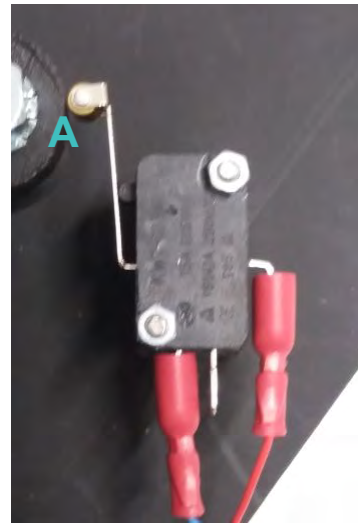
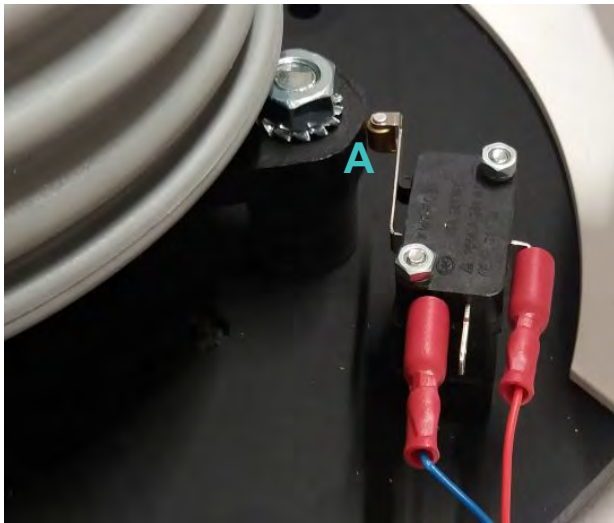
Replace by pushing in the seal into the groove.

Make sure fit is correct or temperature control will suffer



Shown with Top cover and  
Lid removed

P 12 **Imbalance check and adjustment**



**A.** Adjust post so gap here is 2mm from arm roller to motor



# What to do. Refrigerated units

## Micro, Small, & Medium units

For the following checks and adjustments, always remove the power cord from the Centrifuge.

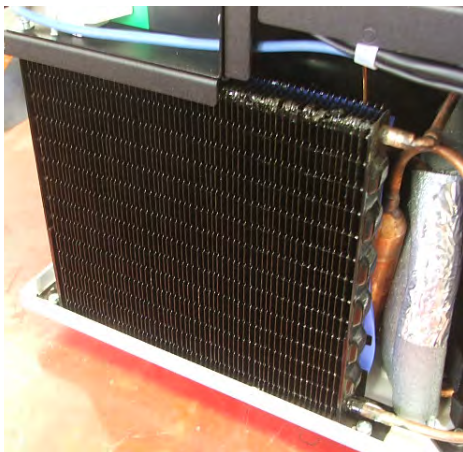
Cleaning of the bowl is required be careful of the vertical temperature sensor. Wipe the display overlay.

Use a bacteria proof type wipe. Do not use bleach or strong cleaning solutions

The following pages show what is required. POWER OFF

### Condensor

Remove the rear panel and Left side panel. Air blast through the condensor and remove any debris. Check the Condensor fan blades and wipe clean if necessary. Check the Compressor mounts for cracks and if so replace. Check all copper pipework for security especially the "Dairy tray " surrounding the compressor base



### Wiring

Check the wiring to the compressor housing and to the Fan for any chafing or looseness If so re enstate into their relevant fixings.

Refit Sides and rear panels . Re Power and turn on check Refrigeration is cooling

# What to do. Refrigerated units

The following pages show what is required. POWER OFF

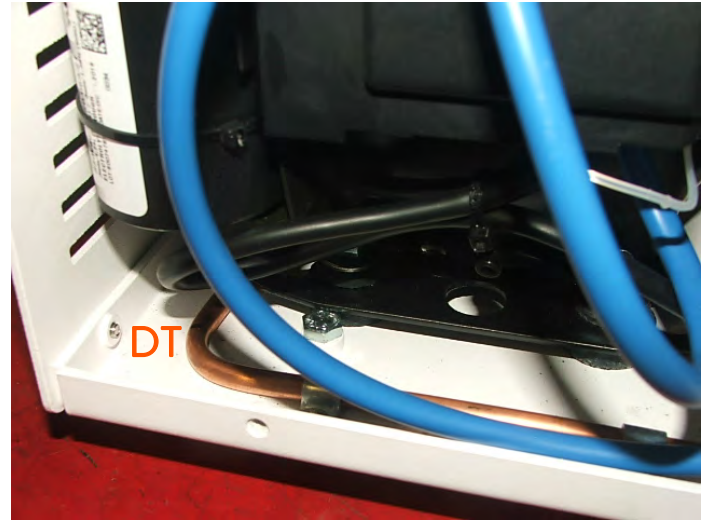
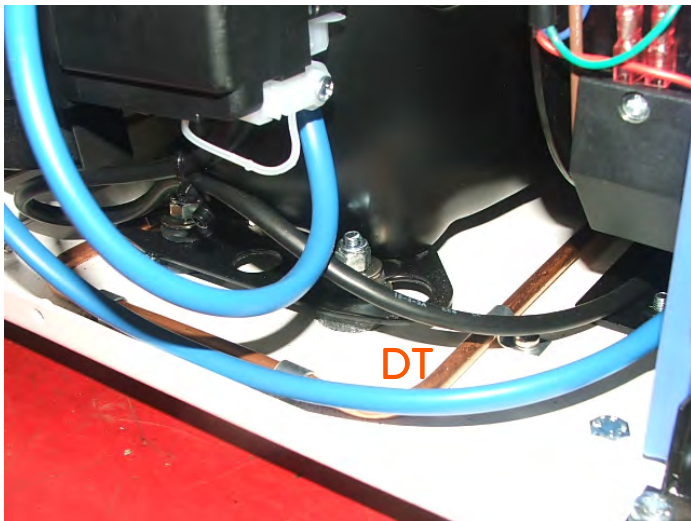
## Condensor 2, 3 & 4 Litre units

Air blast through the front grill to the condensor and remove any debris. Check the Condensor fan blades and wipe clean if necessary. Check the Compressor mounts for cracks and if so replace. Check all copper pipework for security especially the "Dairy tray " surrounding the compressor base. DT



## Wiring

Check the wiring to the compressor housing and to the Fan for any chafing or looseness. If so, re-estate into their relevant fixings. Wiring shown in blue



Refit Sides and rear panels . Re Power and turn on check Refrigeration is cooling

# How to balance

## Rotor balancing. **Very Important**



Tare (zero) your scales first

Weigh a tube, note its weight Weigh another and match its weight to within 0.1 gram



## Swing out rotor, buckets. Balancing



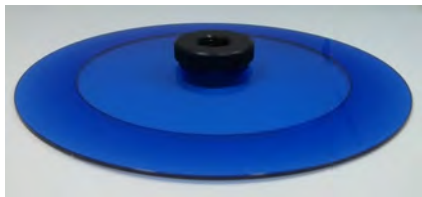
Place all your required tubes in all 4 buckets.  
Equal amount per bucket.  
Weigh each bucket containing tubes

Match other 3 buckets, with tubes to within 1 gram of each other



For BRK5506 rotor use the adaptor

# Tube placement micro rotors



## Haematocrit Rotor

Always fit the lid supplied, as shown to the left



**ALWAYS** load your tubes opposite to each other

**ALWAYS** weigh samples to within 0.1 Gram. For best separations. (see page 4)

**ALWAYS** fit the lid supplied

**CHECK** the Rim seal gasket and replace **every 2 months** (Part number 8011)

**CHECK** the rotor screw fixing tightness regularly



## Micro tube Rotor

Always fit the lid supplied, as shown to the left



**ALWAYS** load your tubes opposite to each other

**ALWAYS** weigh samples to within 0.1 Gram For best separations. (see page 4)

**ALWAYS** fit the lid supplied

**CHECK** the two top seals and replace regularly (Part number 8044)

**CHECK** the rotor screw fixing tightness regularly

# Tube placement Fixed angle rotors



## Small fixed angle Rotors

Always fit the lid supplied, as shown to the left



**ALWAYS** load your tubes opposite to each other

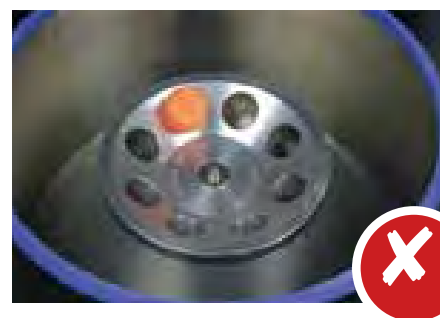
**ALWAYS** weigh samples to within 0.1 Gram. For best separations. (see page 4)

**CHECK** The rotor screw fixing tightness regularly



## Large fixed angle Rotors

Always fit the lid supplied, as shown to the left



**ALWAYS** load your tubes opposite to each other

**ALWAYS** weigh samples to within 0.1 Gram. For best separations. (see page 4)

**CHECK** The rotor screw fixing tightness regularly

# How to balance

## Small Swing out rotor



**ALWAYS** load your tubes opposite to each other  
**ALWAYS** weigh samples to within **0.1 Gram**. For best separations  
**ALWAYS** fit **ALL** the Tube Holders and any supports  
**CHECK** The rotor screw fixing tightness regularly

---

## Medium – Large Swing out Rotors



**ALWAYS** load your tubes opposite to each other  
**ALWAYS** Weigh **Bucket** and all samples within to **1.0 Gram**  
**ALWAYS** fit **ALL** 4 Buckets and 4 Adaptors supplied  
**CHECK** the rotor screw fixing tightness regularly

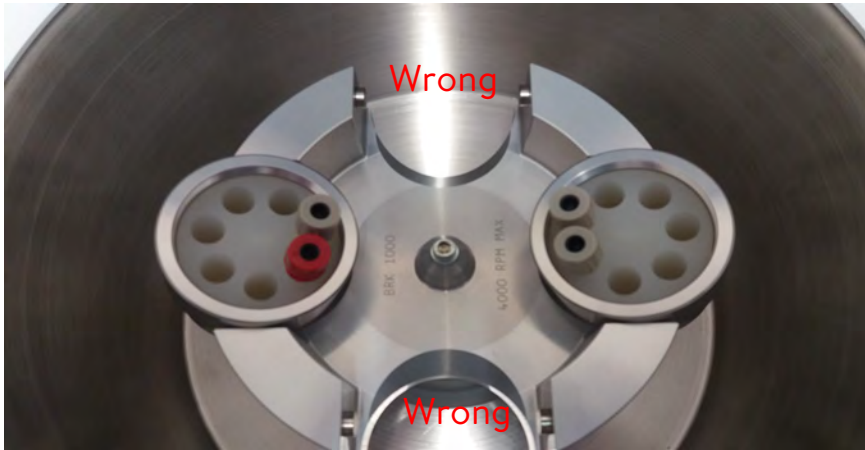
---

## Microtitor Rotor



**ALWAYS** load your plates opposite to each other  
**ALWAYS** weigh samples to within **1.0 Grams**. For best separations  
**ALWAYS** fit **both** Buckets supplied (2)  
**CHECK** the rotor screw fixing tightness regularly

# How to balance



**This is not balanced!**

Even though there are two samples in two buckets opposite to each other it is not balanced.

**NEVER run swing out rotors with only two buckets**



**All four buckets must be used at all times**



**Always use the same size tubes as in A per bucket.**

**NEVER use different size tubes as in B per bucket  
Check they fit and do not hit the centre as shown in C**

A

B

# Test checks. Confirmation of sensors

## **Please follow the following pages**

These will confirm that all sensors are working correctly for safe use and to extend its working life.

Within these checks will also allow you to turn off or on the buzzer and check the LCD is working correctly

## **For units supplied with the BRK5401 Haematocrit rotor.**

Please change the blue gasket in the rotor.

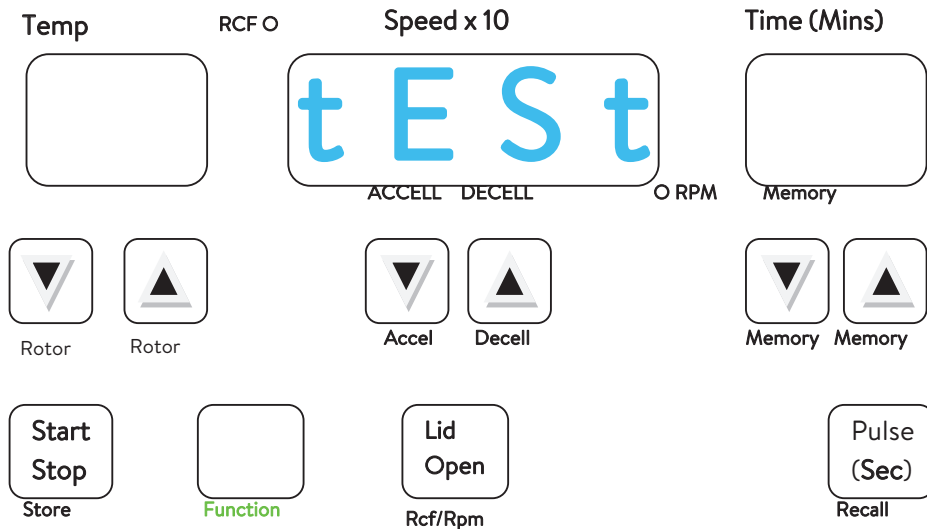
NOTE this should be changed every 2 months maximum

Part number is 8011 for a pack of 6 gaskets.

By changing this gasket regularly you save Capillary tubes from breaking  
Loss of time and the need to take another blood sample reducing patient anxiety.

A cost of 7 Pence per day is not ridiculous either.

HOW TO ENTER TEST AREA. *KEEP THE LID OPEN*  
 Turn power on at rear whilst pressing **Function** button in



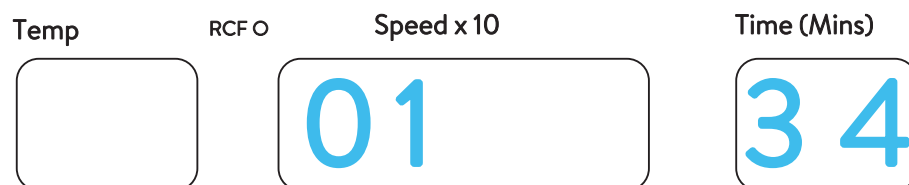
Release the **Function** button  
 Press the Up arrow on time (**Memory**)  
 You will then see the following



Press Memory up arrow to go to each line

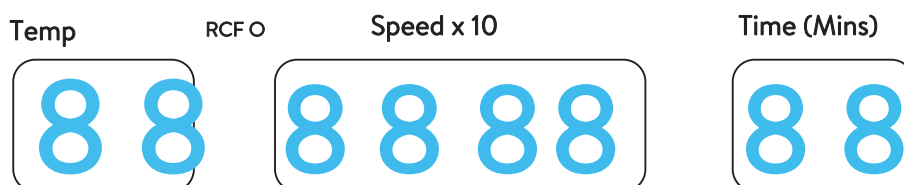
Line 34

Buzzer Off (00) or On (01)



Buzzer on

## LED/AMPLIFIER CHECK



Line 35

Press Decell button to increment segments

# TEST Routine Diagnostics

Temp

RCF O

Speed x 10

00 00

ACCELL DECELL

O RPM

Time (Mins)

3 6

Memory

▼

Rotor

▲

Rotor

▼

Accel

▲

Decell

▼

Memory

▲

Memory

Start  
Stop

Store

Function

Lid  
Open

Rcf/Rpm

Pulse  
(Sec)

Recall

Temp

RCF O

Speed x 10

00 00

A B C D

Time (Mins)

3 6

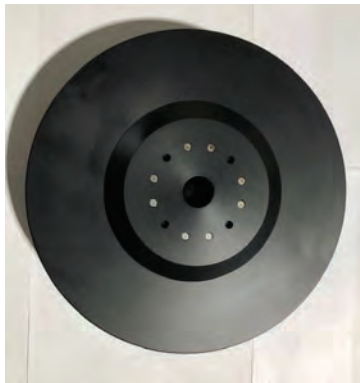
- A. Rotor recognition.
- B Tachometer
- C. Lid sensor
- D. Imbalance

See following pages for each test. A B C D

| Temp                 | RCF O                | Speed x 10                         | Time (Mins)                      |
|----------------------|----------------------|------------------------------------|----------------------------------|
| <input type="text"/> | <input type="text"/> | <input type="text" value="00 00"/> | <input type="text" value="3 6"/> |

A

A. Rotor recognition.



Count the number of magnets on the underside of the rotor.

NOTE

Rotors have varying numbers

*Examples only shown*

Black rotor 8 magnets seen

White rotor 6 magnets seen



Whilst rotating the rotor a full circle (360 degrees) count the number of 0 to 1 shown on the display  
These should match the number seen or to match chart supplied on the following page

| Temp                 | RCF O                | Speed x 10                         | Time (Mins)                      |
|----------------------|----------------------|------------------------------------|----------------------------------|
| <input type="text"/> | <input type="text"/> | <input type="text" value="10 00"/> | <input type="text" value="3 6"/> |

A

A. Rotor recognition.

# TEST Routine. FA 10. Tachometer

| Temp                 | RCF O | Speed x 10 | Time (Mins) |
|----------------------|-------|------------|-------------|
| <input type="text"/> |       | 00 00      | 3 6         |

B

B. Tachometer



*Whilst rotating the rotor full circle  
(360 degrees)  
Check the number of 0/1 seen  
These should be 2 per rotation*

| Temp                 | RCF O | Speed x 10 | Time (Mins) |
|----------------------|-------|------------|-------------|
| <input type="text"/> |       | 0 1 00     | 3 6         |

B

B. Tachometer

Temp      RCF O      Speed x 10      Time (Mins)

     00 00      3 6

C

OPEN state

C. Lid



*Close the Lid*

Temp      RCF O      Speed x 10      Time (Mins)

     00 10      3 6

C

CLOSED state

C. Lid

# TEST Routine FA21-28. Imbalance

P26

| Temp                 | RCF O | Speed x 10 | Time (Mins) |
|----------------------|-------|------------|-------------|
| <input type="text"/> | 00 00 | 3 6        |             |

D

None imbalance state

D. Imbalance



*With rotor screw fixed to motor shaft  
Push the rotor (hard) to the right side  
8 should show on the display.  
see below*

| Temp                 | RCF O | Speed x 10 | Time (Mins) |
|----------------------|-------|------------|-------------|
| <input type="text"/> | 00 01 | 3 6        |             |

D

Imbalance state

D. Imbalance

# Final tests and return to use

## BUZZER TEST

Press Memory up arrow  
to go to each line

| Temp | RCF O | Speed x 10 | Time (Mins) |
|------|-------|------------|-------------|
|      |       | BU Zt      | St          |

Line 37

Buzzer Test . Press DECELL button to instigate

| Temp | RCF O | Speed x 10 | Time (Mins) |
|------|-------|------------|-------------|
|      |       | BU ZO      | n           |

Buzzer On  
Can you hear it?

Buzzer Test . Press DECELL button to instigate

| Temp | RCF O | Speed x 10 | Time (Mins) |
|------|-------|------------|-------------|
|      |       | BU ZO      | FF          |

Buzzer Off

Buzzer Test . Press DECELL button to instigate

## DOG TEST

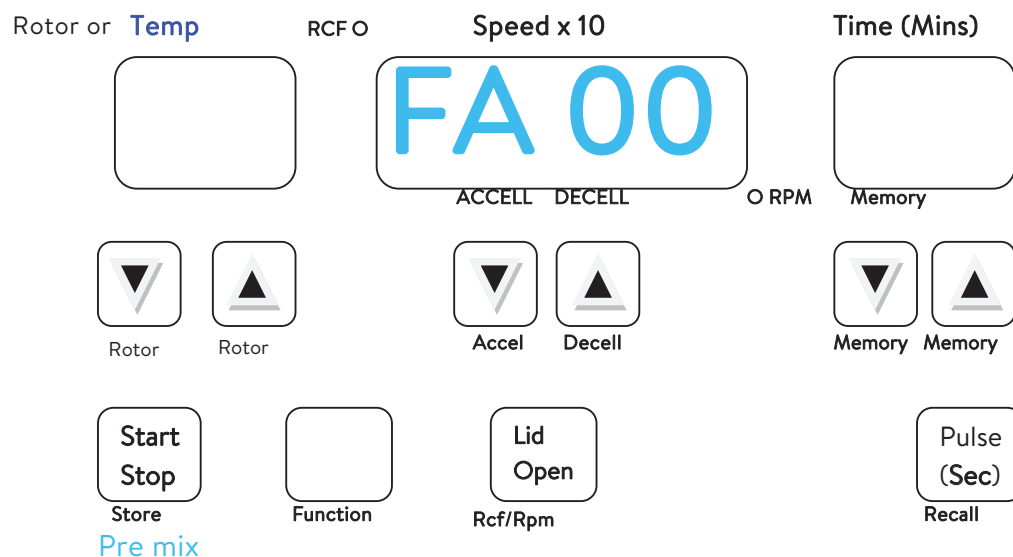
| Temp | RCF O | Speed x 10 | Time (Mins) |
|------|-------|------------|-------------|
|      |       | DO 9t      | St          |

Line 38

Final Test (Dog Test). Press DECELL button

| Temp | RCF O | Speed x 10 | Time (Mins) |
|------|-------|------------|-------------|
|      |       | HELL       | 0           |

HELLO Should display on screen Centrifuge is out of TEST routine



Fault codes are shown in the Speed section of the LED display (shown above in Green)

The following List show what each Code means and what to do.

|      |                        |                                                                                                                                                                                                                                                                               |
|------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FA10 | No rotation seen       | Check the Following with the Lid open.<br>Tubes are too tall and foul the Lid, replace with correct ones<br>Check the rotor to see if it freely turns, if not look for<br>Objects in the bowl that may be fouling and remove.<br><i>If not Contact our Service Department</i> |
| FA21 | Imbalance BG           | Check the Following.<br>Weigh your tubes to 1g of each other<br>Place tubes in Rotor opposite each other<br>(see Following Rotor pages for instructions)<br><i>If Fault code persists call our Service Department.</i>                                                        |
| FA22 | Imbalance BD           | As above.                                                                                                                                                                                                                                                                     |
| FA23 | Imbalance MG           | As above.                                                                                                                                                                                                                                                                     |
| FA24 | Imbalance MD           | As above.                                                                                                                                                                                                                                                                     |
| FA25 | Imbalance Base Sensor  | <i>Contact our Service Department.</i>                                                                                                                                                                                                                                        |
| FA26 | Imbalance Motor Sensor | <i>Contact our Service Department.</i>                                                                                                                                                                                                                                        |
| FA27 | Data time out          | <i>Contact our Service Department.</i>                                                                                                                                                                                                                                        |
| FA28 | Imbalance              | See the following Rotor pages                                                                                                                                                                                                                                                 |
| FA30 | Lid is open            | Close the Lid, press down on 2 front corners, push firmly.<br><i>If problem persists Contact our Service Department</i>                                                                                                                                                       |
| FA40 | Rotor recognition      | Wrong rotor selected , look at code on rotor and select same in<br>rotor selection                                                                                                                                                                                            |

Fault codes are shown in the Speed section of the LED display (shown on previous page)

The following List show what each Code means and what to do.

## FA50

Inverter Drive

Look at the Obround viewing port (Rear)

Note the Code shown in the inverter display. \*

Turn off the power at the wall mains switch only.

WAIT 3 minutes, Turn on again and Run. If problem persists

Contact our Service Department, with the Inverter code

## FA51

Inverter error

As above.



Obround viewing port shown. \*

Temp



## Refrigerated model only

If this is shown in the Temp window there is a Temperature probe failure

Contact our Service Department



## Speed will not go beyond 2000 Rpm.

- The Electronics have set the Speed to safe mode
- Check the rotor bottom has magnets fitted
- Check correct rotor is in use against program chosen
- If not then Contact our Service Department

## Noisy

- Unbalanced tubes, see Rotor pages
- Lid seal needs replacing
- Rotor Lid not fitted

## Lid support fail

- Spring has failed. Contact our Service Department

# What to do

For the following checks and adjustments, always remove the power cord from the Centrifuge.

Cleaning of the bowl and display overlay is required.

Use a bacteria proof type wipe. Do not use bleach or strong cleaning solutions

The following pages show what is required.

## **Rotor recognition.**

Remove the rotor and check its magnets underneath , are all in place by looking at the chart supplied? If not do not use as the unit will go into safety mode 2000 Rpm.

## **Tachometer**

Remove the grill on the underside and clean the tachometer a blast of air is best. Do not use a hard metal brush , be careful and if air is not available use a soft brush NO cleaning solutions .

## **Lid**

Grease the lid latch rotor with a minimum spray of silicon as supplied

## **Lid seals**

Replace the lid seal as shown

## **Lid underseal**

Replace as shown, Note whilst the top cover has been removed check the

**Imbalance sensor** for adjustment

After replacing the top cover/Lid.

## **Refit the power cord and follow the Test procedures (Page 15-21)**

These procedures test all sensors and confirm its use and safety

# PrO-Care

## Service, Warranty & Maintenance packages

The lifespan of a centrifuge depends upon how well it is looked after and maintained.

Many of our centrifuges have lived a life of over 15 years.

This is not only due to our stringent manufacturing process and high quality components but also to a yearly servicing package. Making them a cost effective solution of centrifugation.

Whilst our centrifuges come with a confidence giving warranty, yearly services are imperative to ensure your warranty is valid, this also ensures your machine is working to its best ability and lengthens its life span. Also as centrifuges are a dangerous machine, safety checks are required too.

For UK customers we offer a back to base service package including carriage to us and return all within 48 hours. Centrifuge seals , fuses & other parts are replaced, adjustments made, rotor checked for stress cracks, seals changed if necessary (extra charge) PAT (portable appliance test) is included Obligatory in UK.

For worldwide customers we offer a full parts package per model. The designated country distributor services the units accordingly.

Call our Office to discuss or visit our Service website

[WWW.ServicePrO-Care.com](http://WWW.ServicePrO-Care.com)

[www.Centurionscientificglobal.com](http://www.Centurionscientificglobal.com)

Switchboard. 0044 (0) 2392 631225

#### Research & service

The Old equine Barn  
Church Farm  
Stoughton Chichester  
PO18 9JL. UK

#### Ambient manufacturing

The Old Grain Barn  
Church Farm  
Stoughton Chichester  
PO18 9JL. UK

#### Refrigeration Manufacturing

The Old Drier Barn  
Church Farm  
Stoughton  
Chichester  
PO18 9JL. UK

#### Sales

The Old Stables Church  
Farm Stoughton  
Chichester