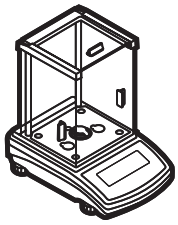
Start up Guide

B2-Series

Balances

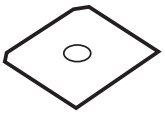
1. CONTENT

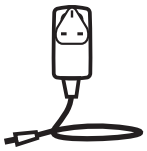
Models: VWR-64B2 | VWR-124B2 | VWR-214B2


Balance
x 1

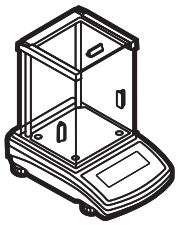

Weighing pan
x 1


Draft shield
x 1

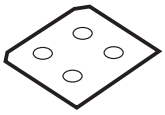

Bottom insert
x 1


Power adapter
x 1

Models: VWR-203B2 | VWR-403B2 | VWR-503B2

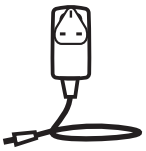

Balance
x 1


Weighing pan
x 1

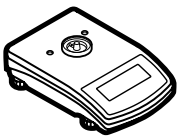

Bottom insert
x 1


Grounding foot
x 1

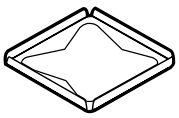

Foot
x 3

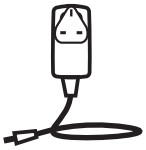

Power adapter
x 1

Models: VWR-4002B2 | VWR-5002B2

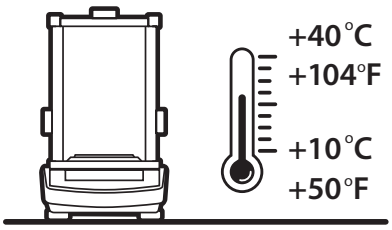

Balance
x1


Weighing pan **x1**


Draft shield
x1

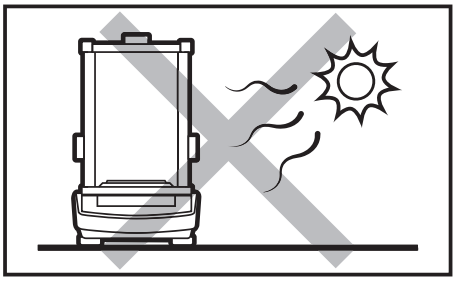

Power adapter
x 1

2. WORKROOM AND BASIC OPERATION GUIDELINES

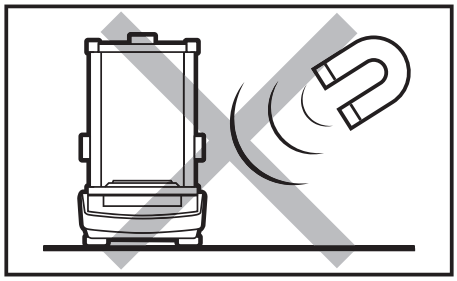


Operate the device in a room where the temperature ranges between 10–40 °C (50–104 °F) and where the relative humidity is below 80%.

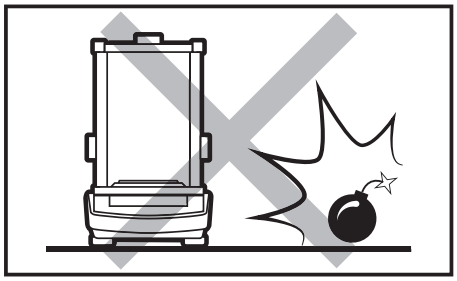
Place the balance on a solid surface to ensure stability. To obtain stable and repeatable weighing results, an anti-vibration table is recommended.



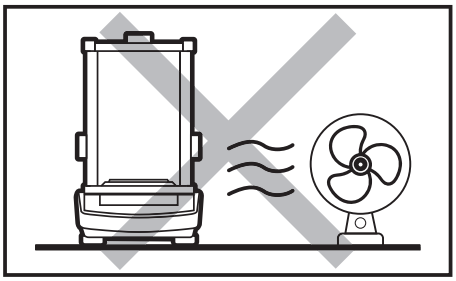
Place the balance away from heat sources. Avoid exposing the balance to the sunlight.



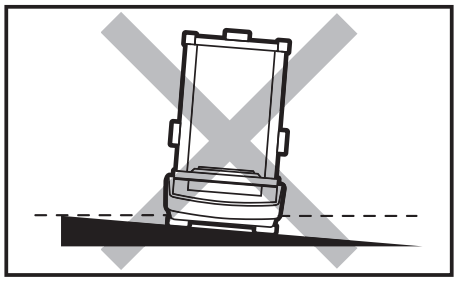
Avoid exposing the balance to a magnetic field. Do not weigh magnetic substances.



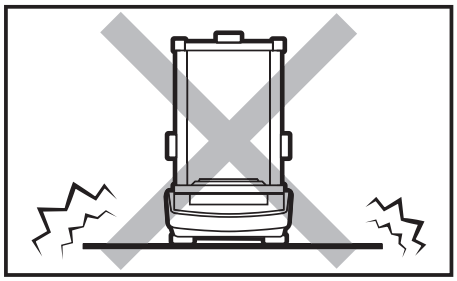
Do not place the balance in a hazardous area. Do not weigh explosive materials.



Avoid air drafts and air movements at the workstation.

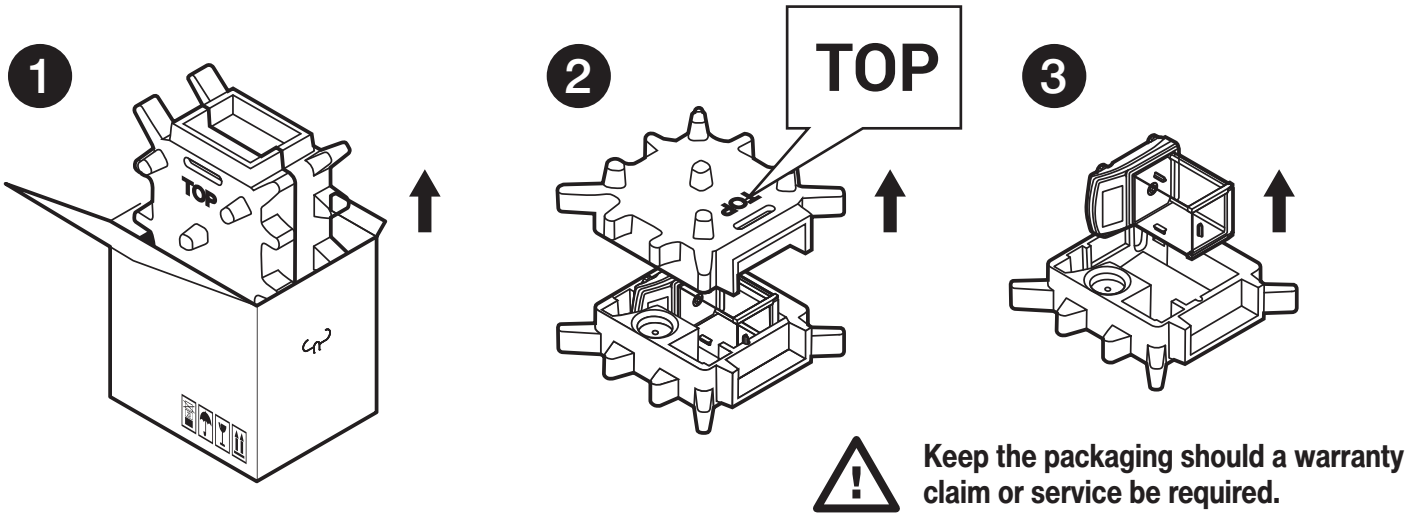


Make sure that the balance is placed on an even surface.



Do not place the balance on an unstable ground exposed to shocks and vibrations.

3. UNPACKING

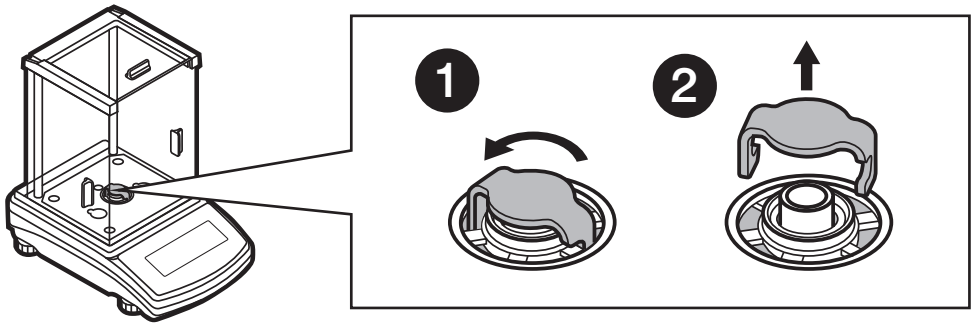


Keep the packaging should a warranty claim or service be required.

4. ACTIVITIES TO BE DONE PRIOR TO OPERATION

4.1. Remove transport lock

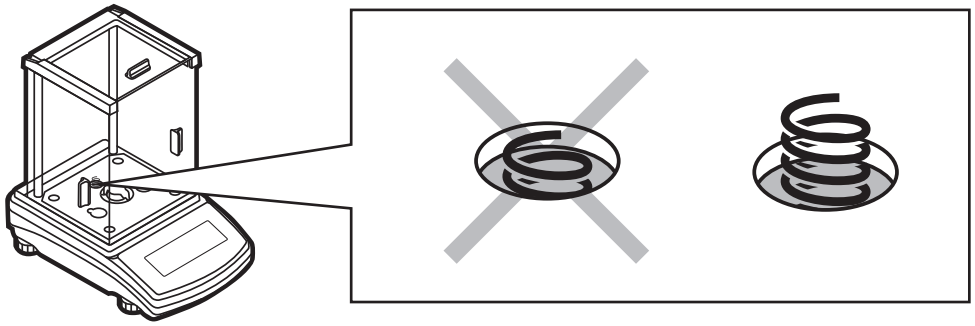
Models: VWR-64B2 | VWR-124B2 | VWR-214B2



Keep the transport lock should a warranty claim or service be required.

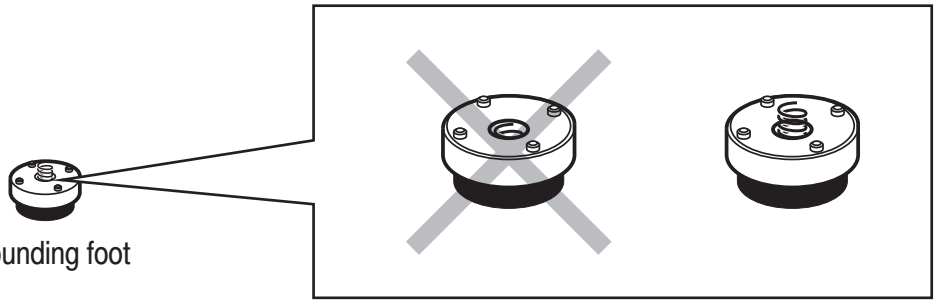
4.2. Grounding spring check

Models: VWR-64B2 | VWR-124B2 | VWR-214B2



Check the grounding spring. Make sure that the grounding spring juts slightly out of the hole.

Models: VWR-203B2 | VWR-403B2 | VWR-503B2

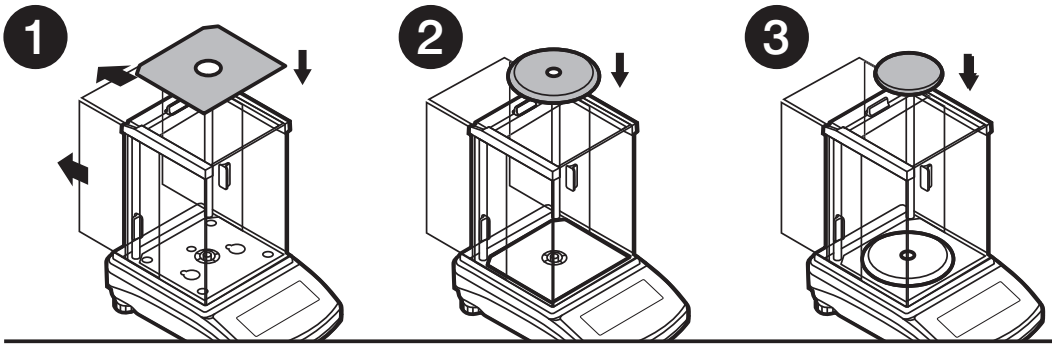


Grounding foot

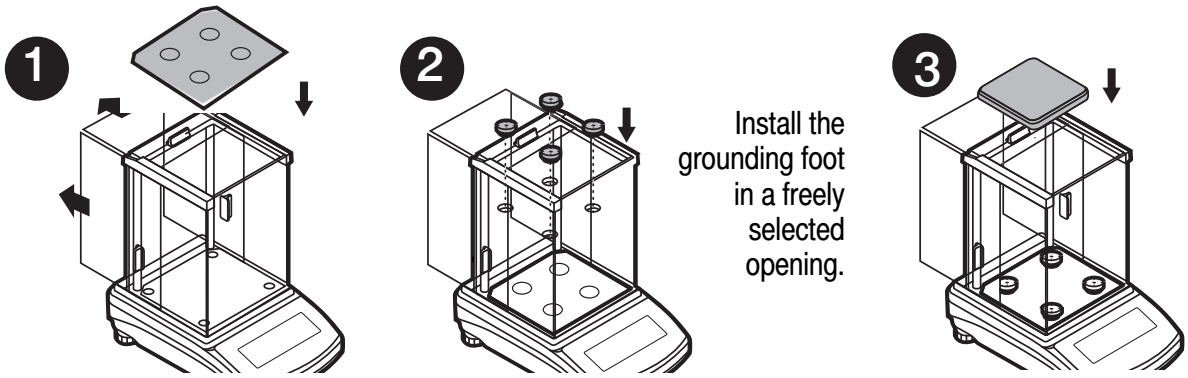
Check the grounding spring. Make sure that the grounding spring juts slightly out of the hole.

5. COMPONENTS ASSEMBLY

Models: VWR-64B2 | VWR-124B2 | VWR-214B2

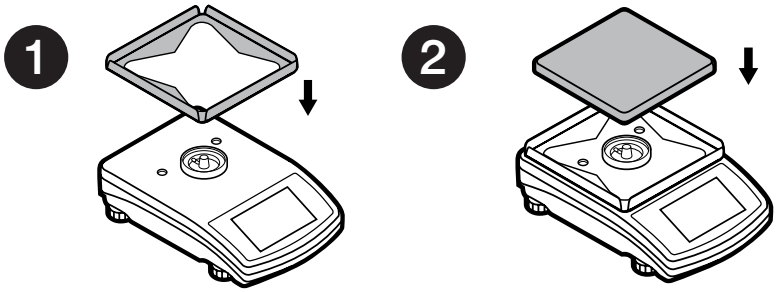


Models: VWR-203B2 | VWR-403B2 | VWR-503B2



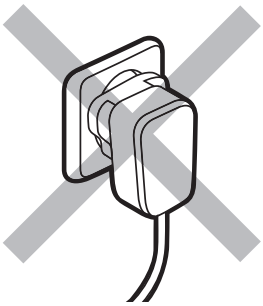
Install the grounding foot in a freely selected opening.

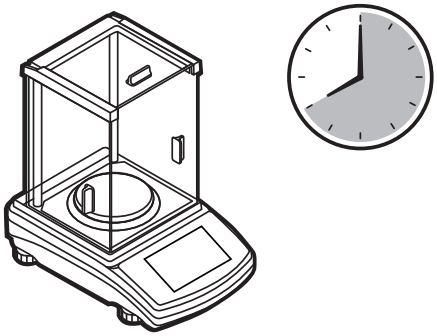
Models: VWR-4002B2 | VWR-5002B2



6. PREPARING FOR WORK

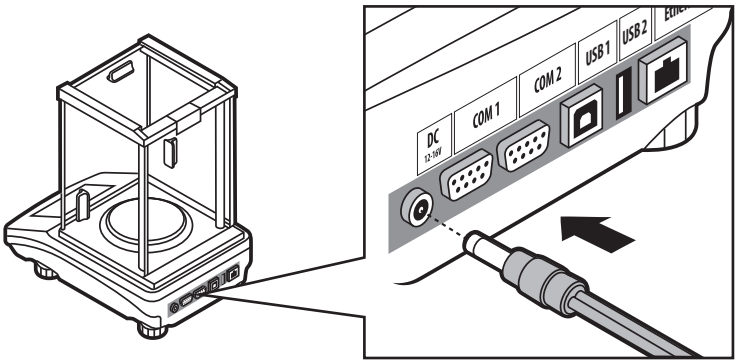
6.1. Balance temperature stabilization time

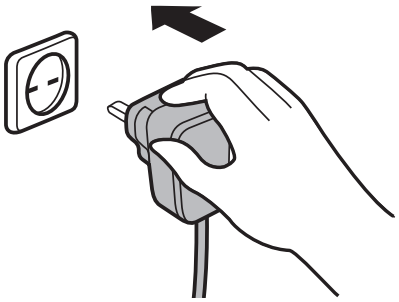




Prior to switching the device on it is necessary to ensure that it has reached a temperature equal to room temperature.

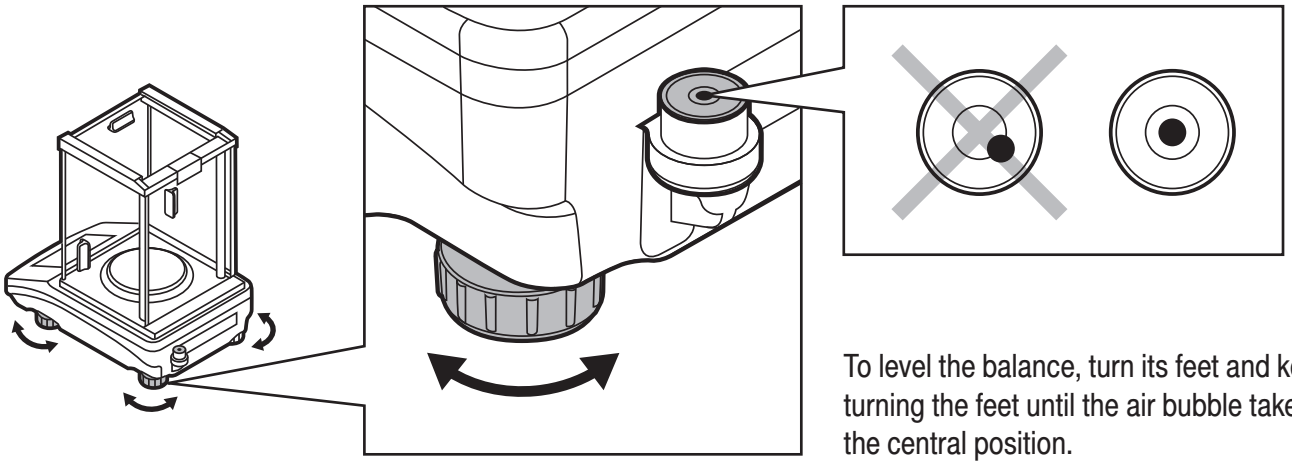
Balance temperature stabilization time ranges between 1 - 8 hours.





Connect the power adapter to DC connector.

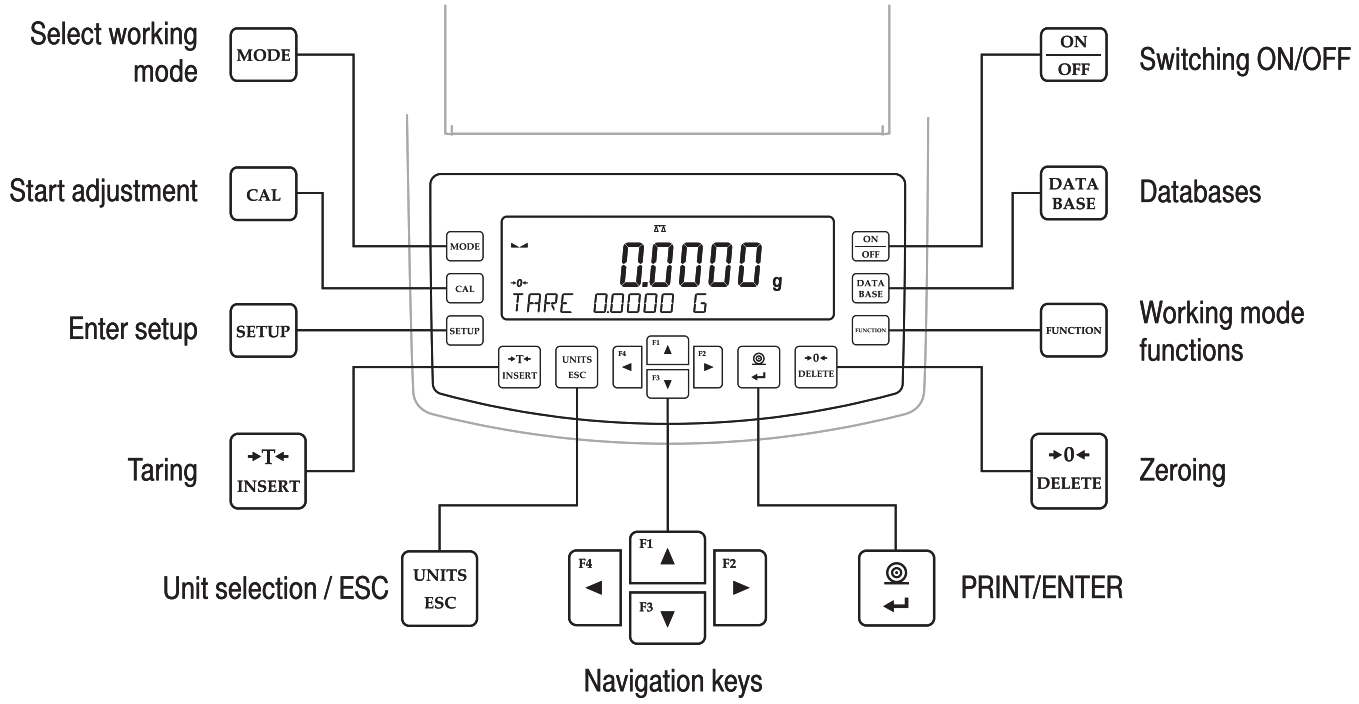
Connect the power adapter to the mains.



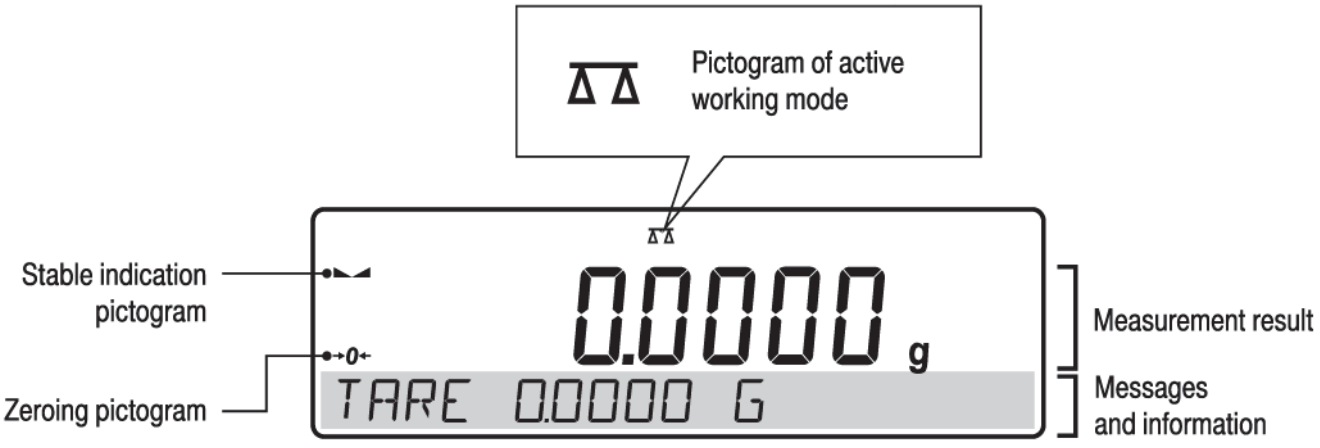
To level the balance, turn its feet and keep turning the feet until the air bubble takes the central position.

7. PANEL AND SCREEN

7.1. Panel keys



7.2. Home screen



8. BASIC OPERATIONS

8.1. Adjustment

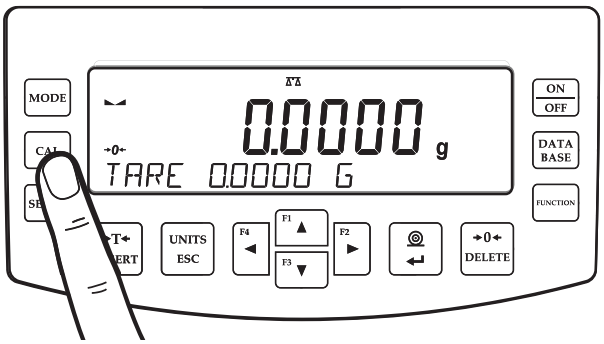
External adjustment is carried out using an external mass standard of the right accuracy and weight value, which value depends on balance type and capacity.

Prior adjustment prepare the right mass standard. You are recommended to use mass standard of class F1 or F2.

View the table and select the mass standard you need.

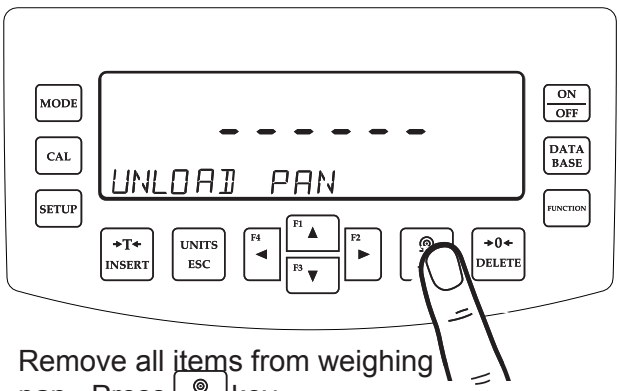
Balance model	Mass standard [g]	Balance model	Mass standard [g]
VWR-64B2	50	VWR-4002B2	2 000
VWR-124B2	100	VWR-5002B2	5 000
VWR-214B2	200		
VWR-203B2	200		
VWR-403B2	200		
VWR-503B2	500		

1



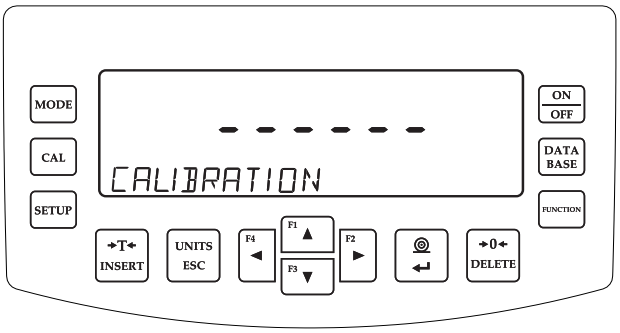
Press CAL key to start the adjustment

2



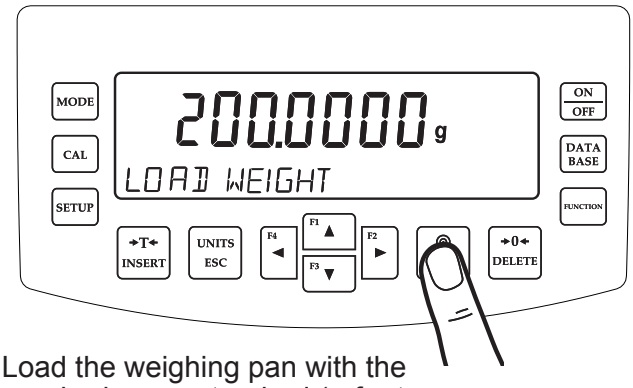
Remove all items from weighing pan. Press key

3



Balance prepares for adjustment.

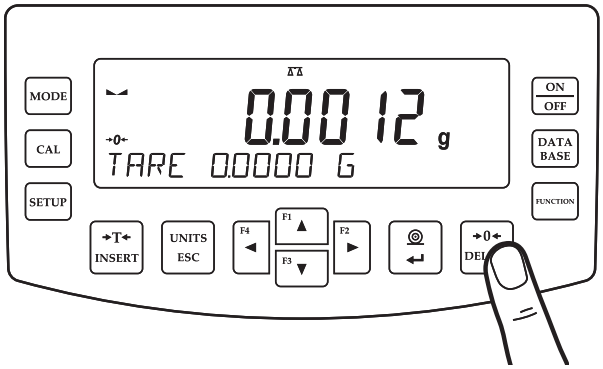
4



Load the weighing pan with the required mass standard (refer to table above). Press key

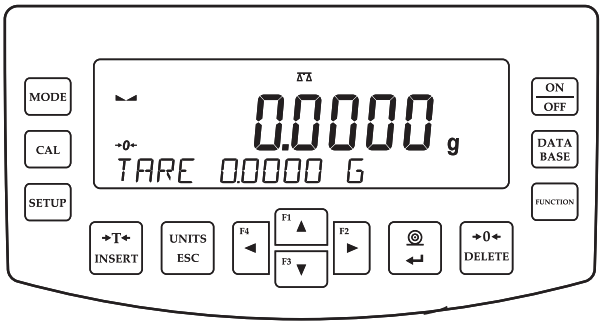
8.2. Zeroing

1



Unload the weighing pan and press "Zeroing" button.

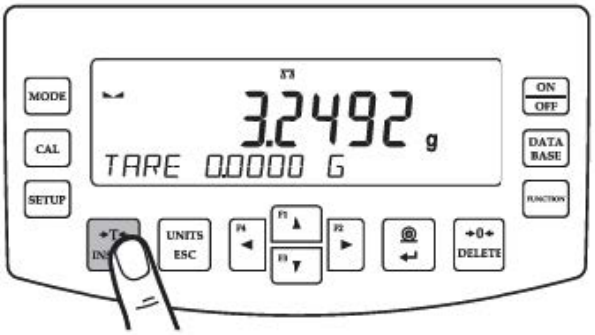
2



The balance has been zeroed.

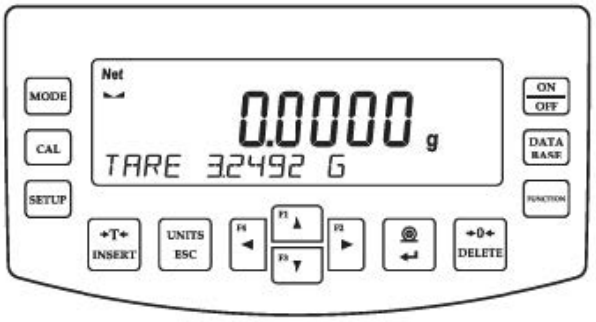
8.3. Taring

1



When the weighing result has been displayed press "Tare" button.

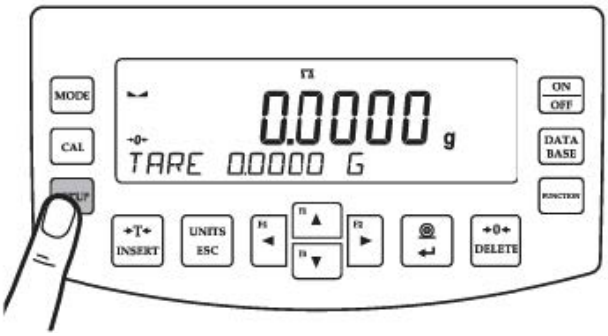
2



The balance has been tared.

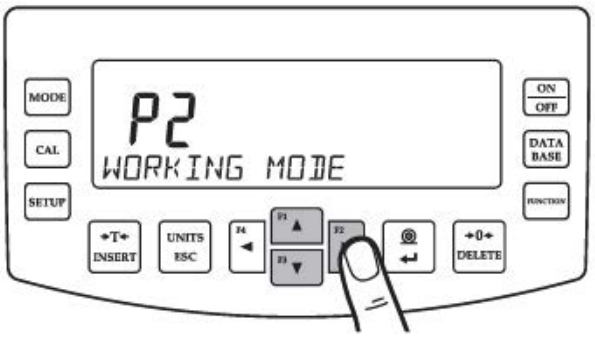
8.4. Working modes accessibility

1



Press SETUP to enter "Setup" menu.

2

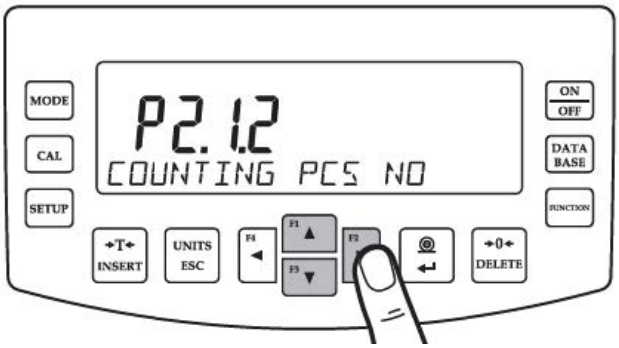


Using ▲ ▼ keys select "Working mode" and press ► key

3

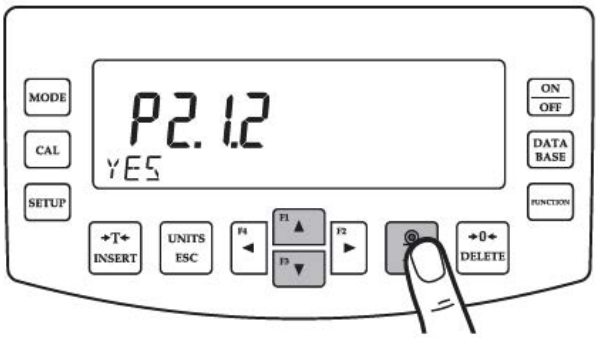
In the "Accessibility" position, press ► key

4



Using ▲ ▼ keys to select working modes for which accessibility is to be set and press ► key.

5

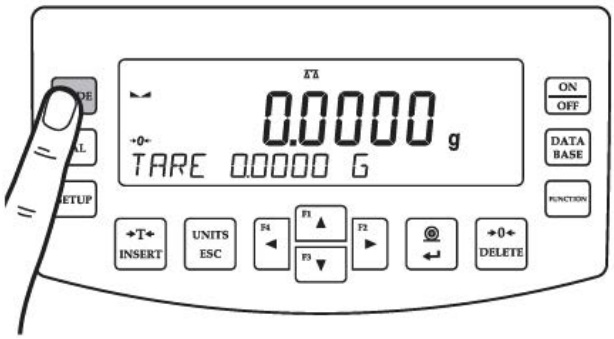


Using ▲ ▼ keys to set accessibility parameter to "Yes" value for a selected working mode and press ↵ key to confirm.

In order to enable other working modes, repeat the steps: 4 and 5.

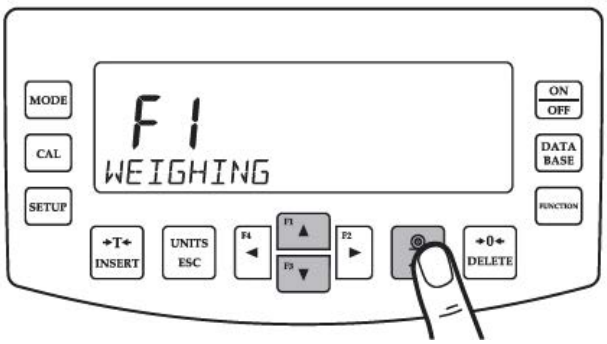
8.5. Selecting working mode

1



Press MODE key to enter working modes menu.

2



Using ▲ ▼ keys, select working mode and press ↵ key to confirm.

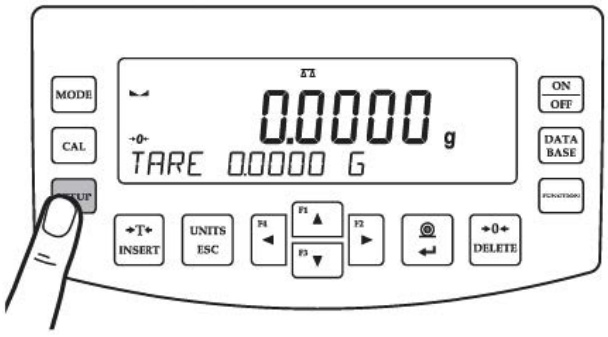
The menu features the following working modes:

Weighing
Parts counting
Animal weighing
Solids density
Liquids density
Deviations

Detailed overview of the settings of the working modes is to be found in balance's main user manual.

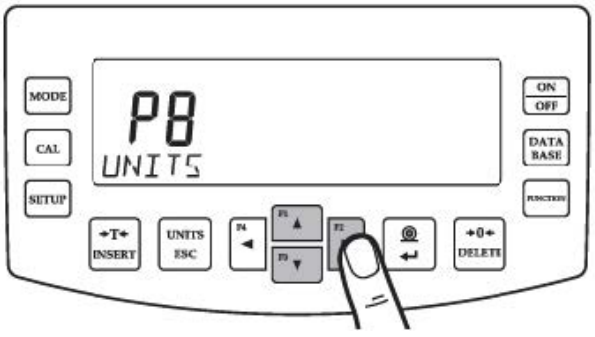
8.6. Weighing unit accessibility

1



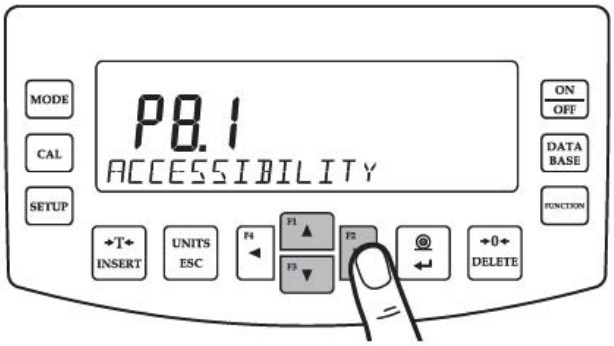
Press SETUP to enter "Setup" menu.

2



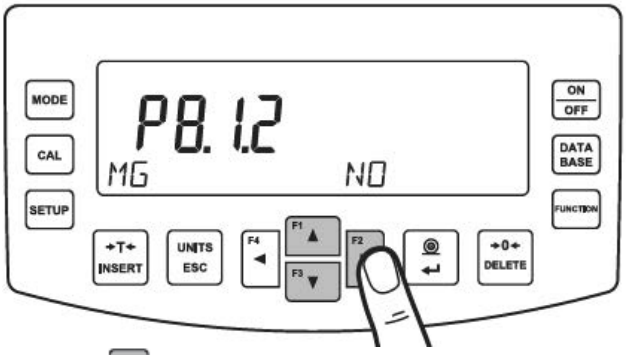
Using ▲ ▼ keys, select "Units" and press ► key

3



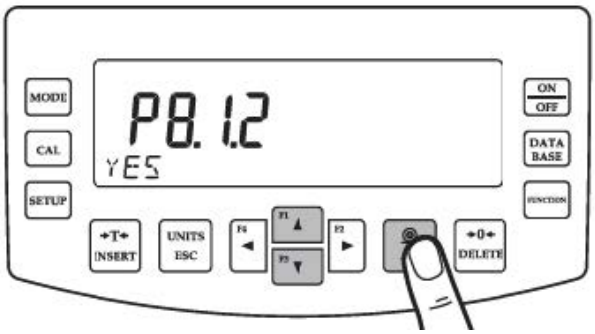
In the "Accessibility" position, press [F2 ►] key.

4



Using [▲] [▼] keys to select unit for which accessibility is to be set and press [F2 ►] key.

5

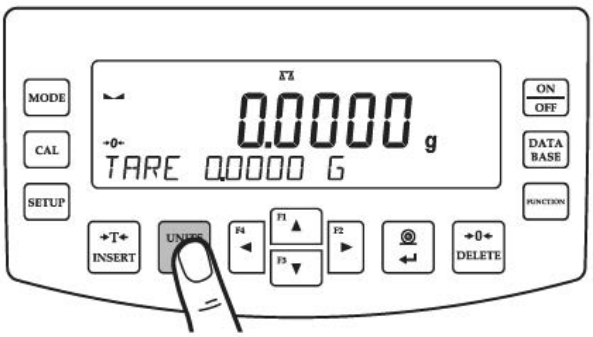


Using [▲] [▼] keys to set accessibility parameter to "Yes" value for a selected working mode and press [↵] key to confirm.

In order to enable other working modes, repeat the steps: 4 and 5.

8.7. Weighing unit selection

1

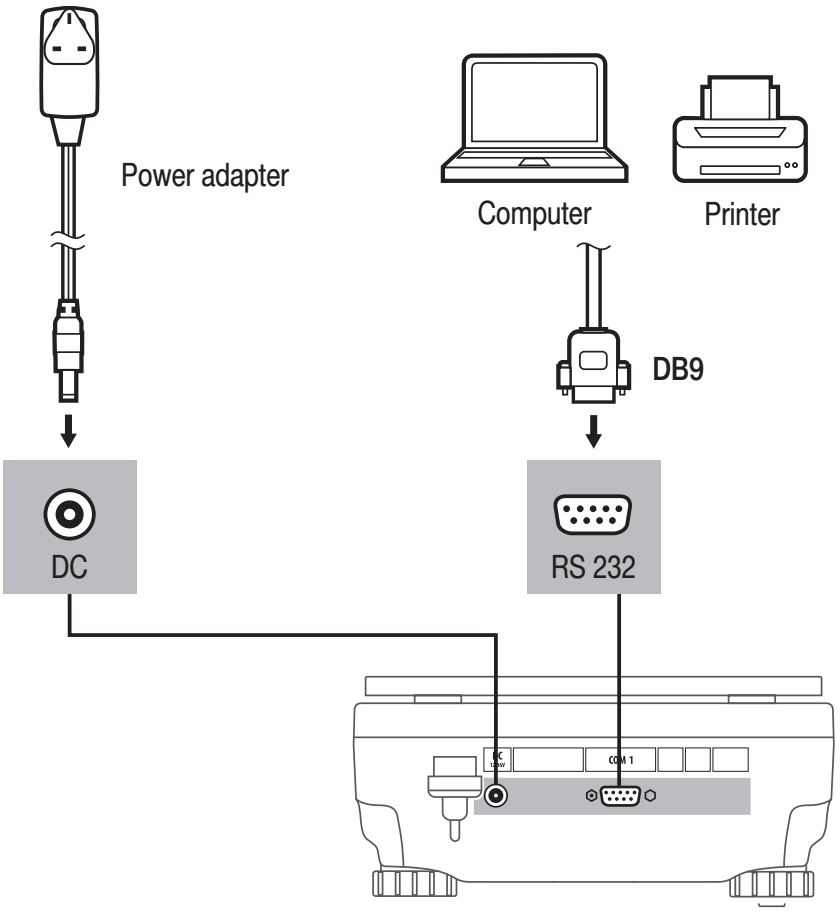


Press [UNITS ESC] key to select the weighing units

The balance enables selecting the following weighing units:

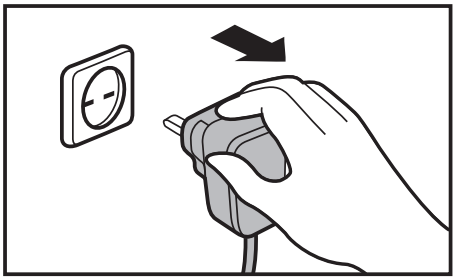
- Gram [g]*
- Miligram [mg]*
- Kilogram [kg]*
- Carat [ct]*
- Pound [lb]
- Ounce [oz]
- Troy ounce [ozt]
- Pennyweight [dwt]
- Hong Kong Tael [tlh]
- Singapore tael [tls]
- Taiwanese tael [tlt
- Chinese tael [tlc]
- Momme [mom]
- Grain [gr]
- Tical [ti]
- Newton [N]

10. PERIPHERAL DEVICES CONNECTORS

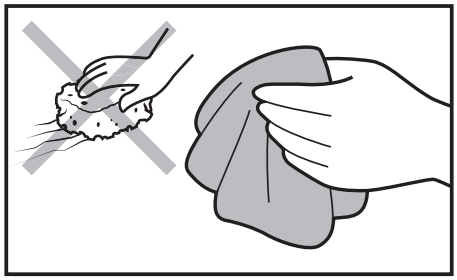


11. DEVICE CLEANING

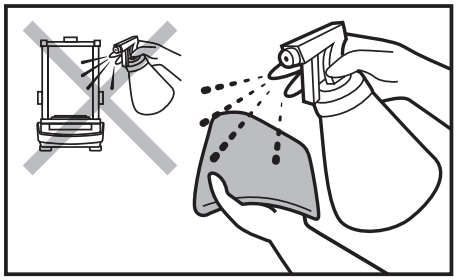
11.1. General Recommendations



Prior to cleaning, it is necessary to disconnect th e balance from the mains.



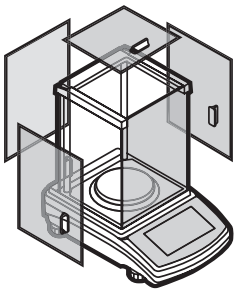
Use soft cloths made of microfiber, natural fiber or man-made fiber. Avoid using abrasive cloths or cloths that might scratch the surface.



Apply the cleanser onto the cloth first. Avoid applying the cleanser directly onto the device.

Avoid using cleansers containing chlorine, corrosive chemicals and bleach. Do not use cleansers containing abrasive substances or scouring preparations.

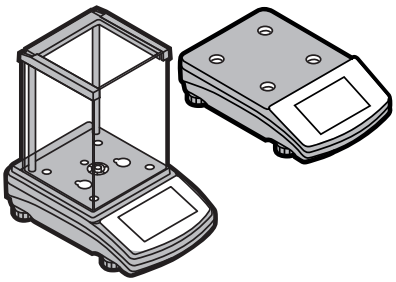
11.2. Glass components



Prior to cleaning the glass panes, it is necessary to disassemble them first. For detailed instruction on panes disassembly, refer to user manual.

Clean glass components using a solution of water and detergent (liquid soap, dish-washing detergent, glass cleaner, etc.). In case of heavy contamination, a mild solution of vinegar or baking soda can be used.

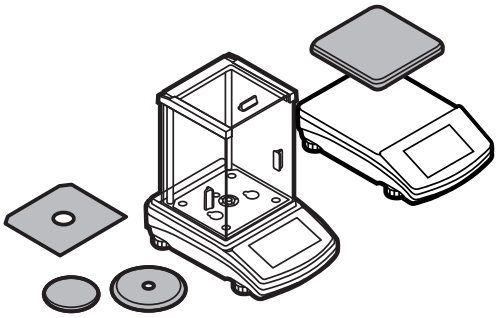
11.3. Plastic components



Prior to cleaning the plastic housing, it is necessary to disassemble weighing pan components (cover, weighing pan, etc.).

Clean plastic components using a solution of water and detergent (liquid soap, dish-washing detergent, glass cleaner, etc.).

11.4. Stainless steel components



Prior to cleaning the stainless steel components, it is necessary to disassemble them first.

Clean stainless steel components using a solution of water and detergent (liquid soap, dish-washing detergent, glass cleaner, etc.). In case of heavy contamination, a mild solution of vinegar or baking soda. can be used.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