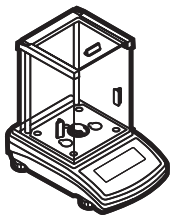
Start up Guide

A-Series

Balance Series

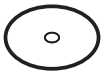
1. CONTENT

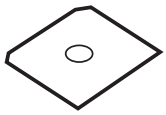
Models: SAS-225

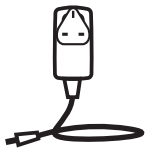

Balance
x 1

Weighing pan
x 1

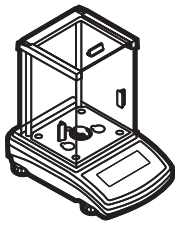
Draft shield
x 1


Centring ring
x 1


Bottom insert
x 1

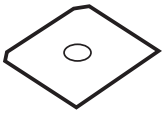

Power adapter
x 1

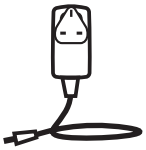
Models: SAS-164 | SAS-224 | SAS-314


Balance
x 1

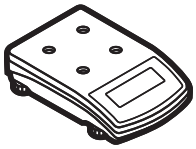
Weighing pan
x 1

Draft shield
x 1

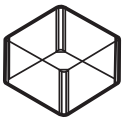

Bottom insert
x 1


Power adapter
x 1

Models: SPS-363 | SPS-603 | SPS-1003

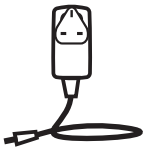

Balance
x 1

Weighing pan
x 1

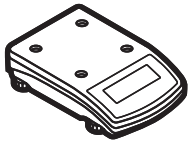

Draft shield
x 1

Grounding foot
x 1

Foot
x 3


Power adapter
x 1

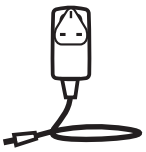
Models: SPS-2102


Balance
x 1

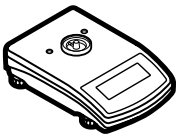
Weighing pan
x 1

Grounding foot
x 1

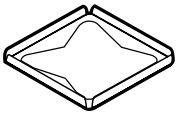
Foot
x 3

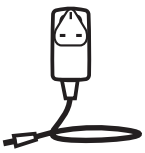

Power adapter
x 1

Models: SPS-4502 | SPS-6002 | SPS-10102

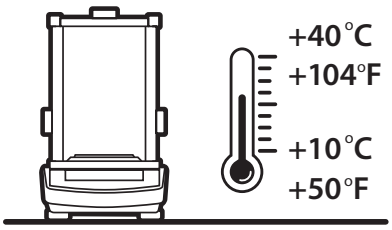

Balance
×1

Weighing pan **×1**


Draft shield
×1

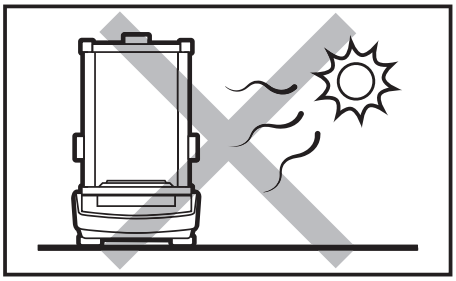

Power adapter
x 1

2. WORKROOM AND BASIC OPERATION GUIDELINES

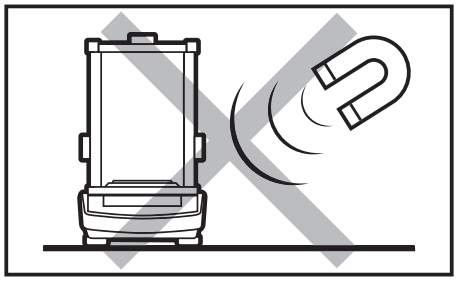


Operate the device in a room where the temperature ranges between 10–40 °C (50–104 °F) and where the relative humidity is below 80%.

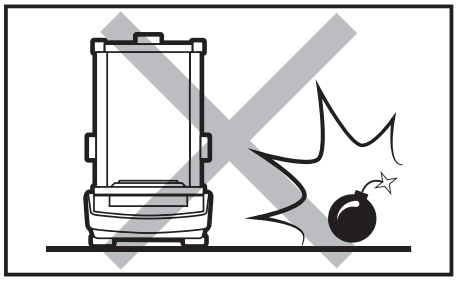
Place the balance on a solid surface to ensure stability. To obtain stable and repeatable weighing results, an anti-vibration table is recommended.



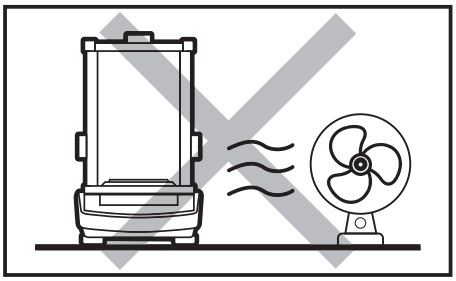
Place the balance away from heat sources. Avoid exposing the balance to the sunlight.



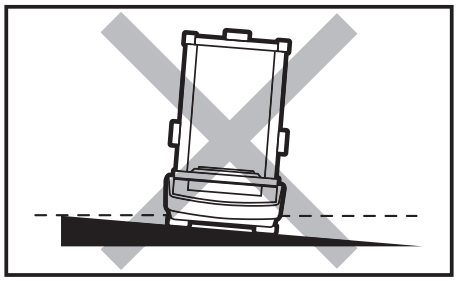
Avoid exposing the balance to a magnetic field. Do not weigh magnetic substances.



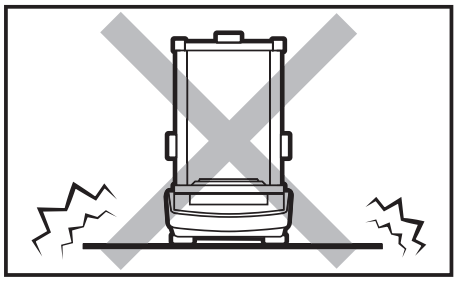
Do not place the balance in a hazardous area. Do not weigh explosive materials.



Avoid air drafts and air movements at the workstation.

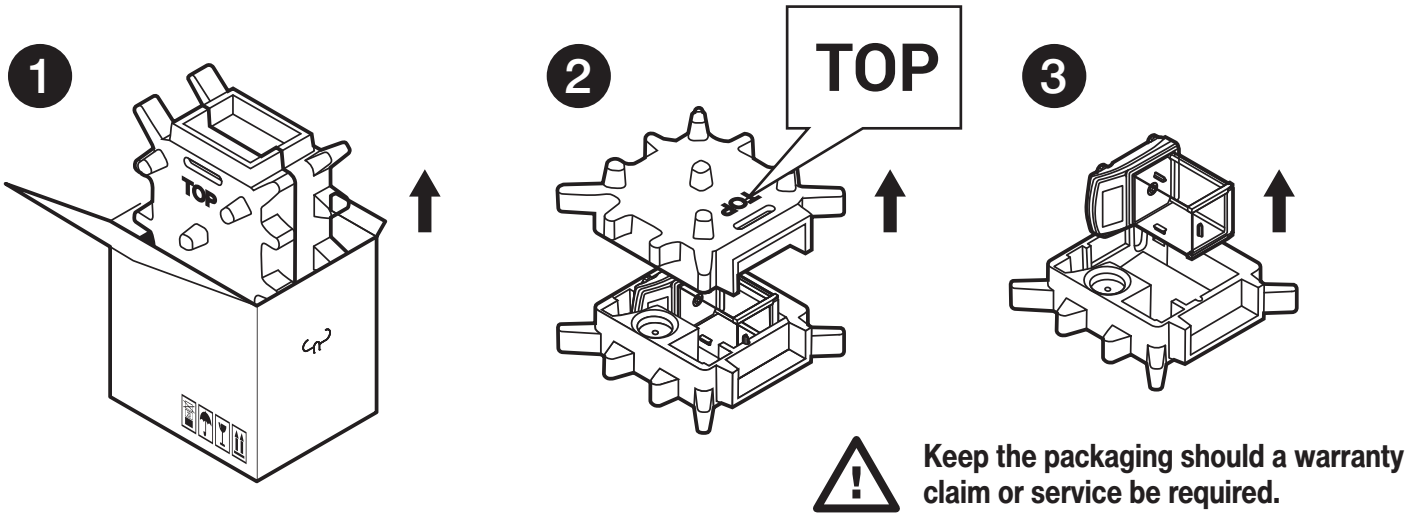


Make sure that the balance is placed on an even surface.



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

3. UNPACKING

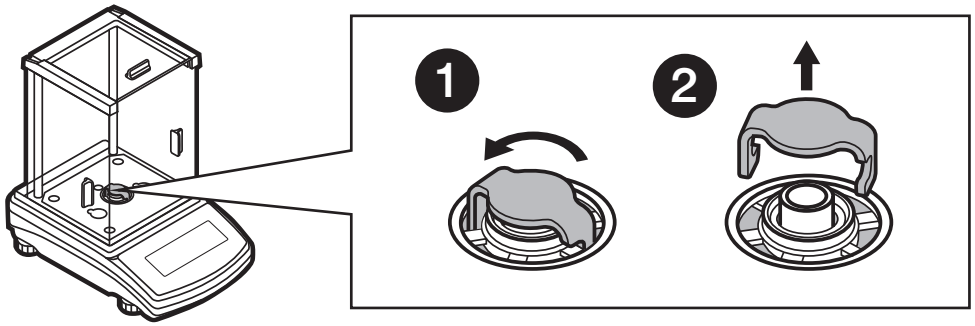


Keep the packaging should a warranty claim or service be required.

4. ACTIVITIES TO BE DONE PRIOR TO OPERATION

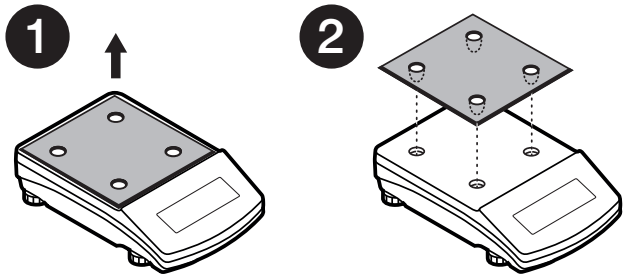
4.1. Remove transport lock

Models: SAS-225 | SAS-164 | SAS-224 | SAS-314



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

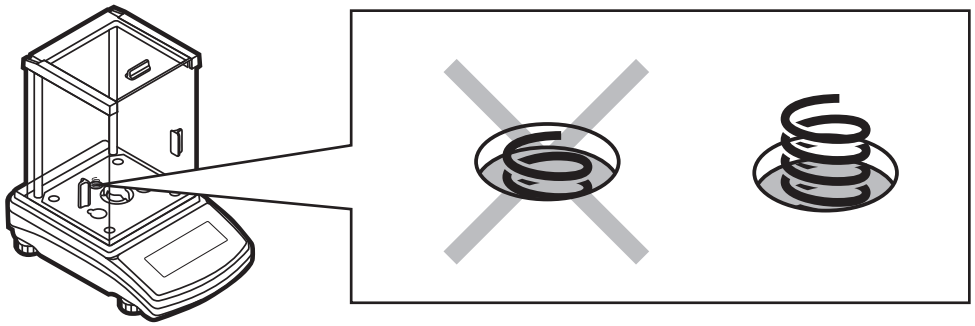
Models: SPS-363 | SPS-603 | SPS-1003 | SPS-2102



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

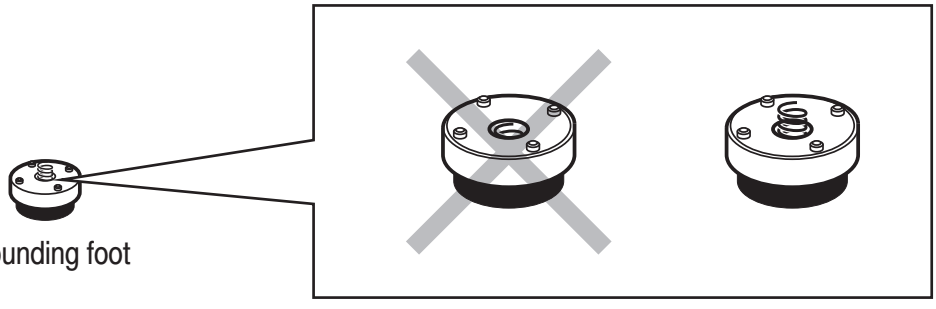
4.2. Grounding spring check

Models: SAS-225 | SAS-164 | SAS-224 | SAS-314



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

Models: SPS-363 | SPS-603 | SPS-1003 | SPS-2102

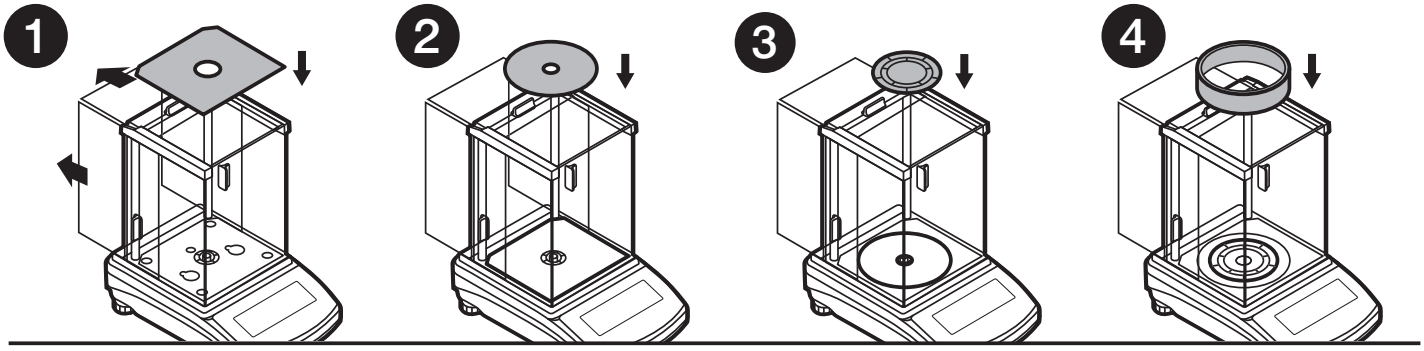


Grounding foot

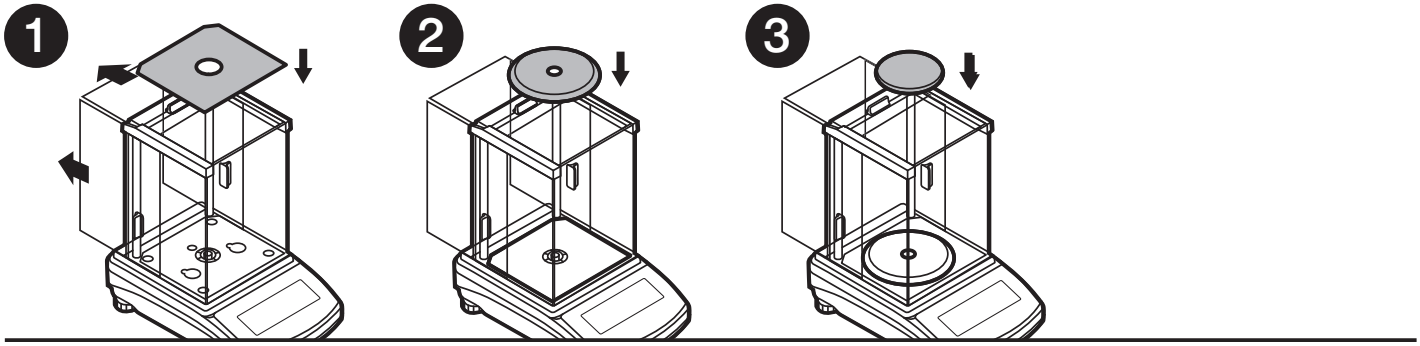
Check the grounding spring. Make sure that the grounding spring juts slightly out of the hole.

5. COMPONENTS ASSEMBLY

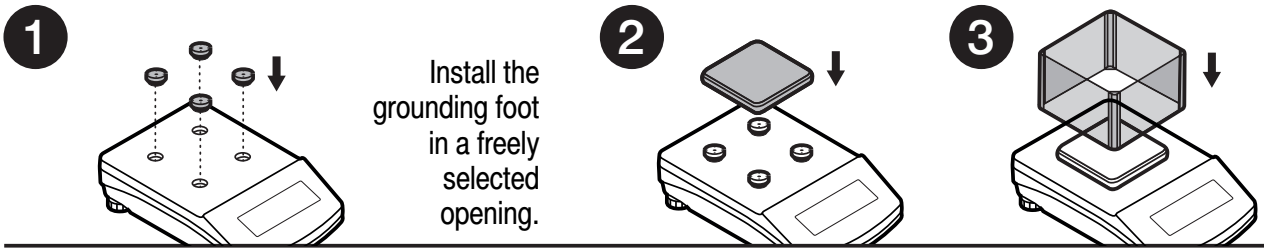
Models: SAS-225



Models: SAS-164 | SAS-224 | SAS-314

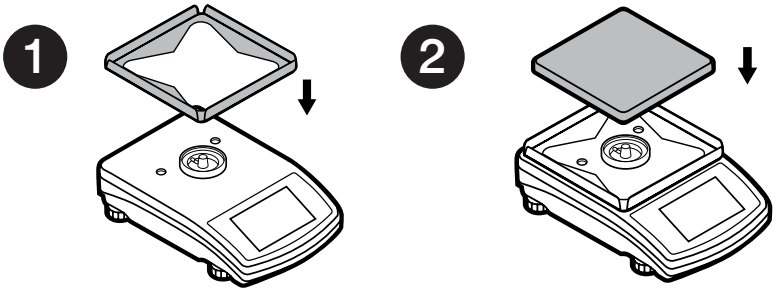


Models: SPS-363 | SPS-603 | SPS-1003



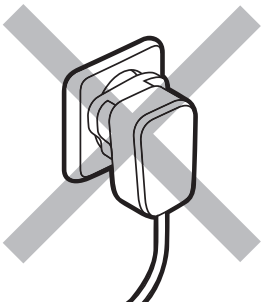
Models: SPS-2102

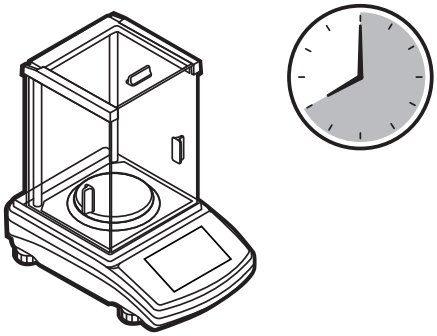
Models: SPS-4502 | SPS-6002 | SPS-10102



6. PREPARING FOR WORK

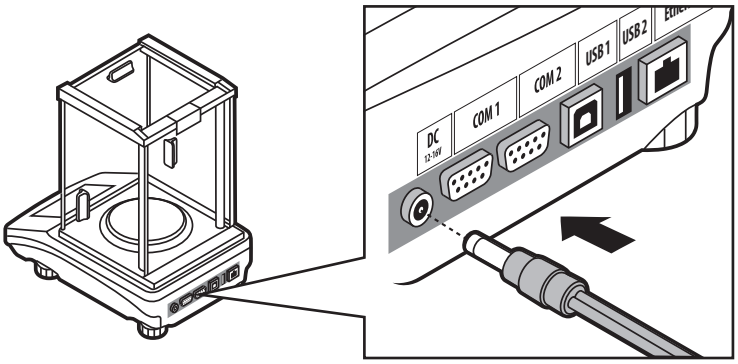
6.1. Balance temperature stabilization time

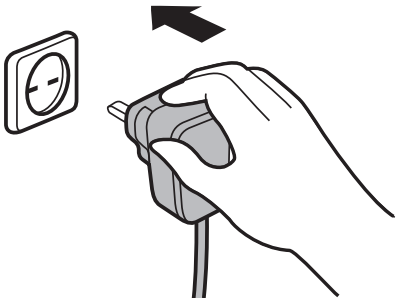




Prior to switching the device on it is necessary to ensure that it has reached a temperature equal to room temperature.

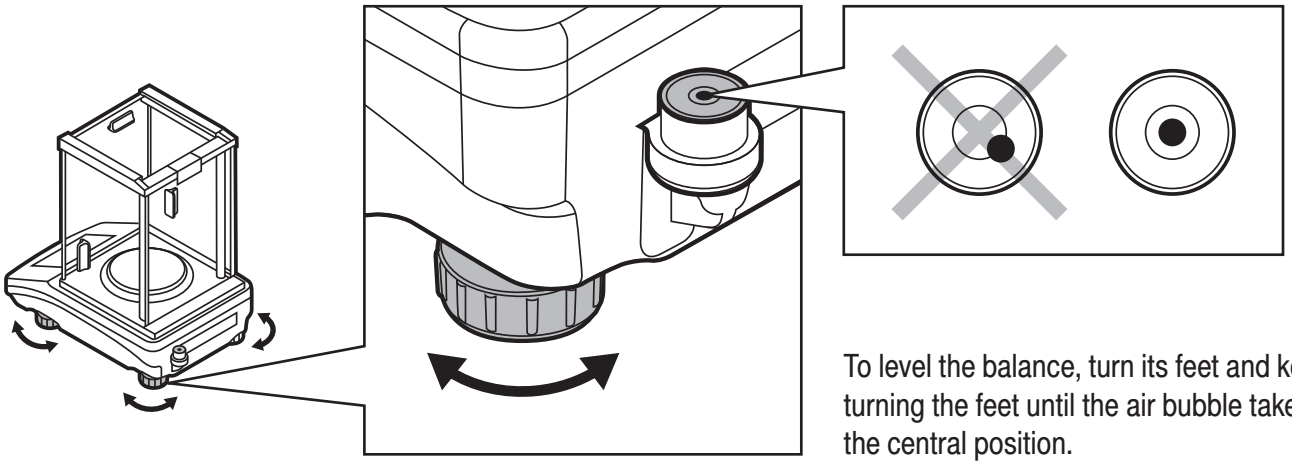
Balance temperature stabilization time ranges between 1 - 8 hours.





Connect the power adapter to DC connector.

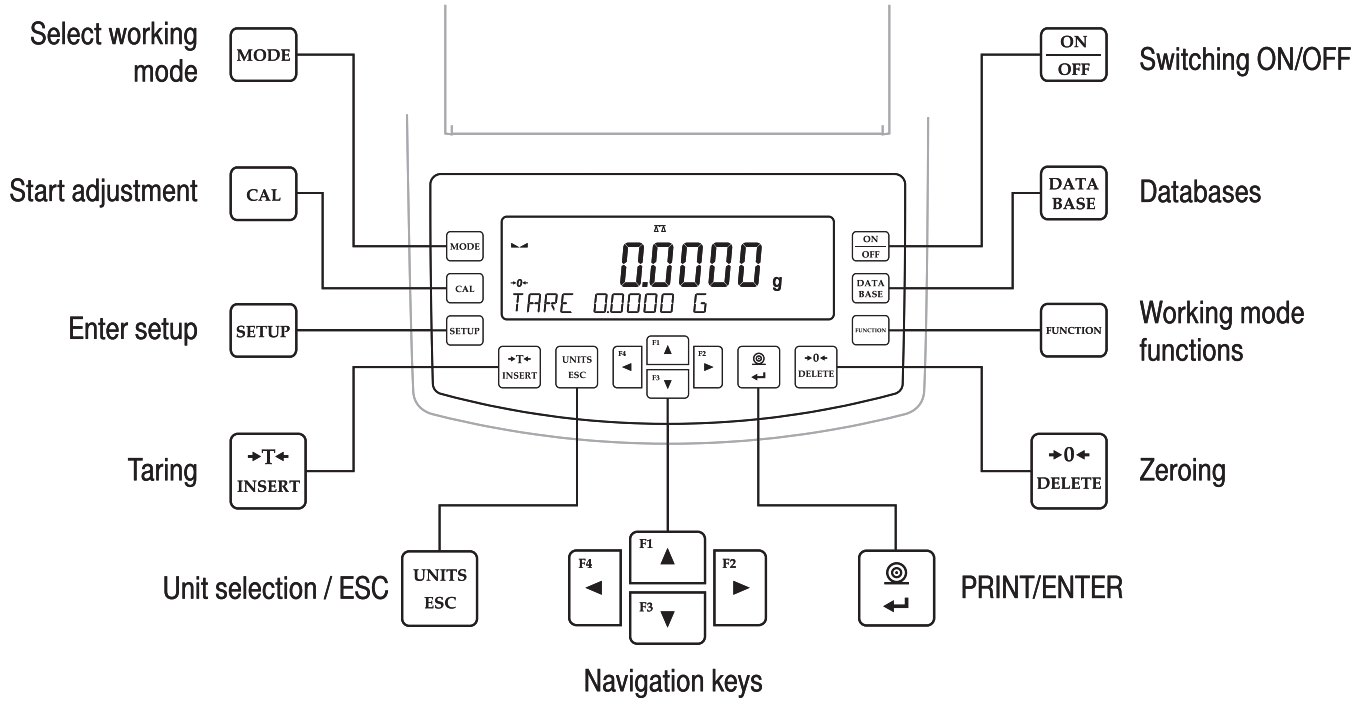
Connect the power adapter to the mains.



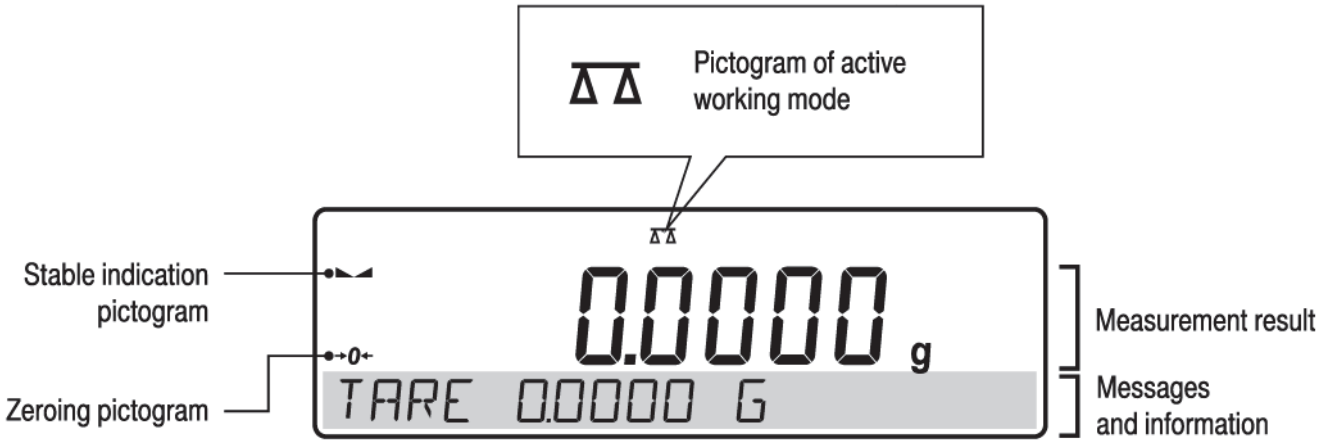
To level the balance, turn its feet and keep turning the feet until the air bubble takes the central position.

7. PANEL AND SCREEN

7.1. Panel keys

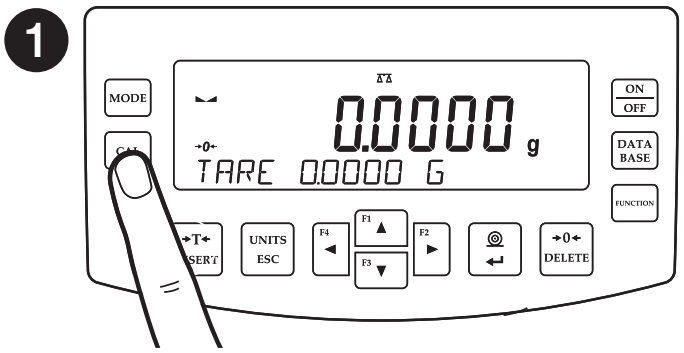


7.2. Home screen

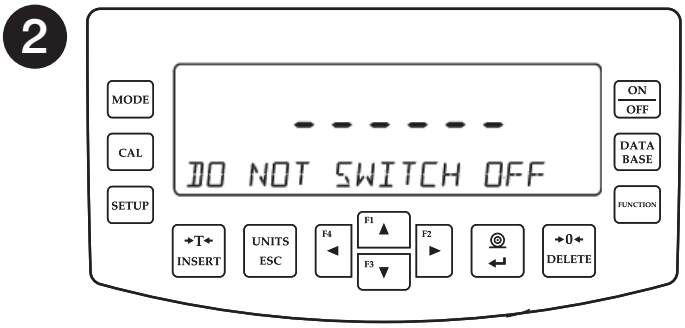


8. BASIC OPERATIONS

8.1. Adjustment

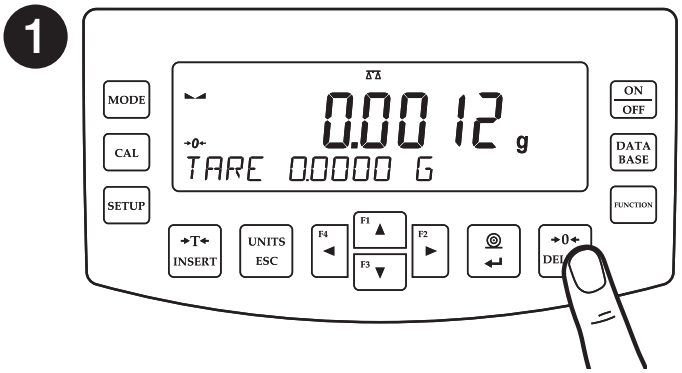


Press [CAL] key to start the adjustment

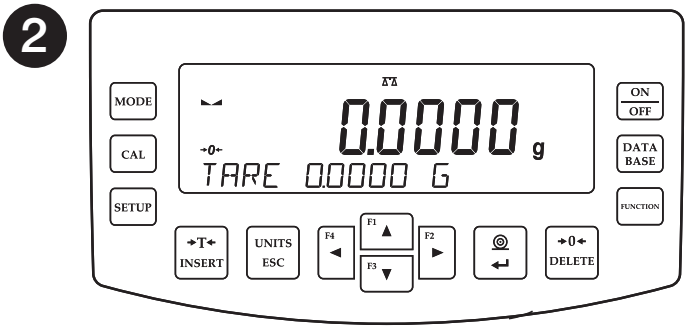


Wait for the adjustment completion.

8.2. Zeroing

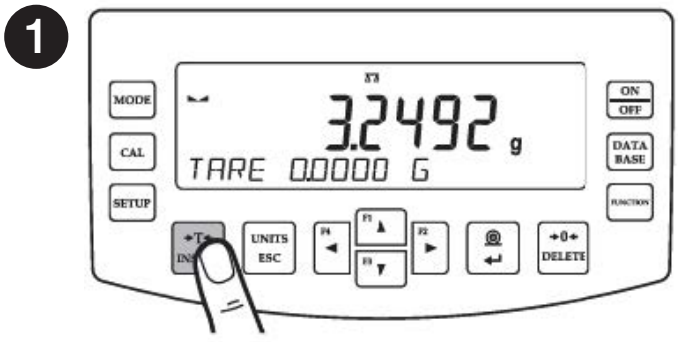


Unload the weighing pan and press "Zeroing" button.

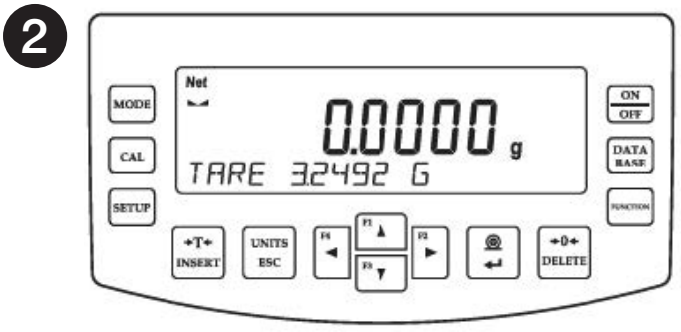


The balance has been zeroed.

8.3. Taring



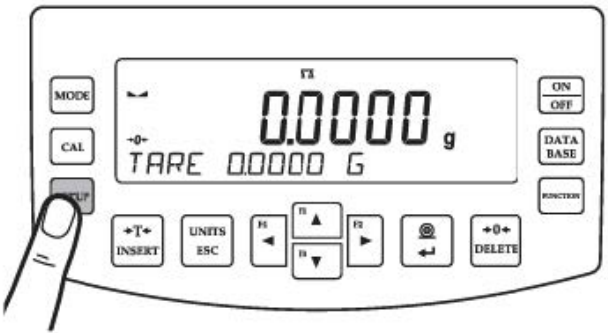
When the weighing result has been displayed press "Tare" button.



The balance has been tared.

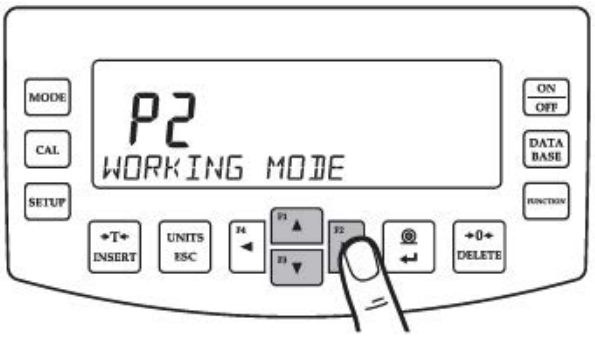
8.4. Working modes accessibility

1



Press SETUP to enter "Setup" menu.

2

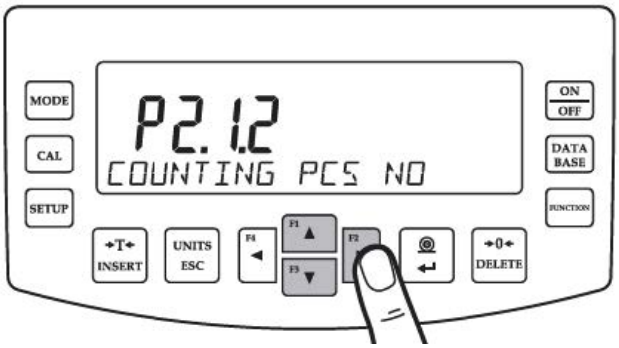


Using ▲ ▼ keys select "Working mode" and press ► key

3

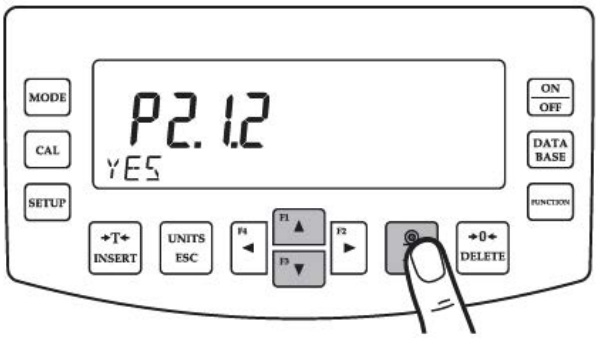
In the "Accessibility" position, press ► key

4



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

5

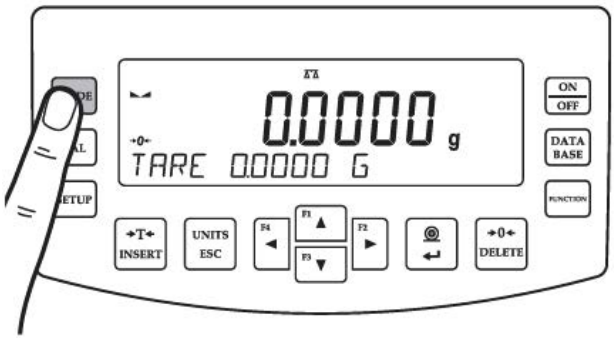


Using ▲ ▼ keys to set accessibility parameter to "Yes" value for a selected working mode and press ↵ key to confirm.

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

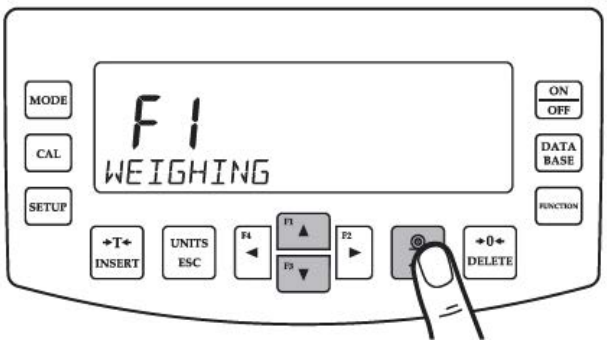
8.5. Selecting working mode

1



Press MODE key to enter working modes menu.

2



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

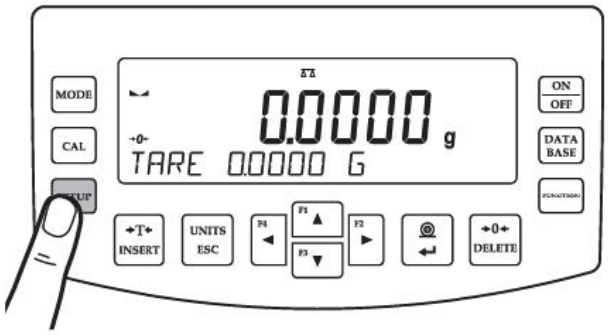
The menu features the following working modes:

- Weighing
- Parts counting
- Checkweighing
- Dosing
- Deviations
- Density Determination of Solids
- Density Determination of Liquids
- Statistics
- Totalising
- Peak Hold
- Pipettes Calibration

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

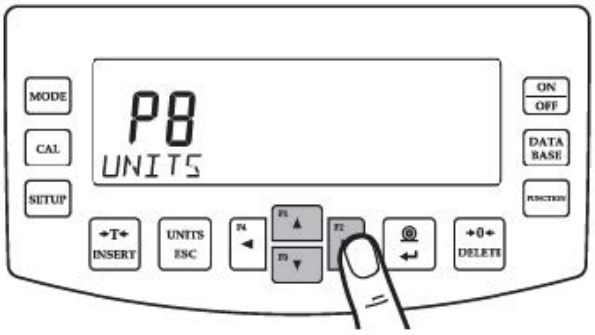
8.6. Weighing unit accessibility

1



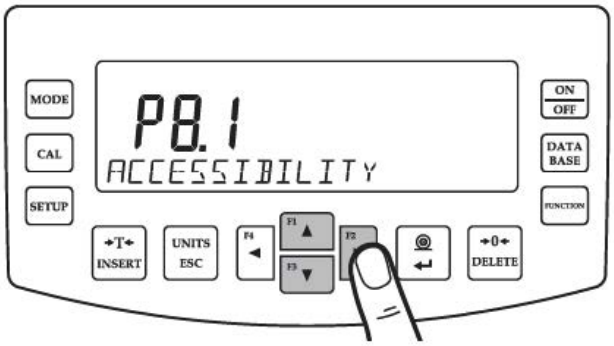
Press SETUP to enter "Setup" menu.

2



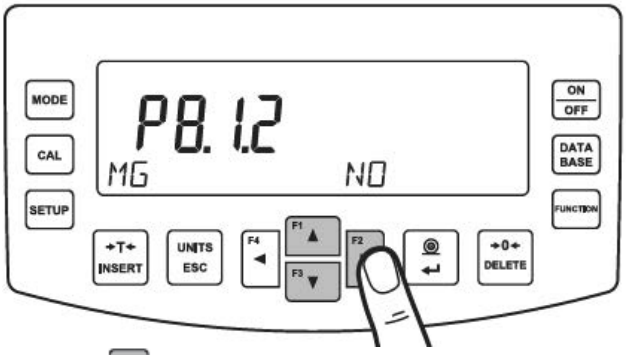
Using ▲ ▼ keys, select "Units" and press ► key

3



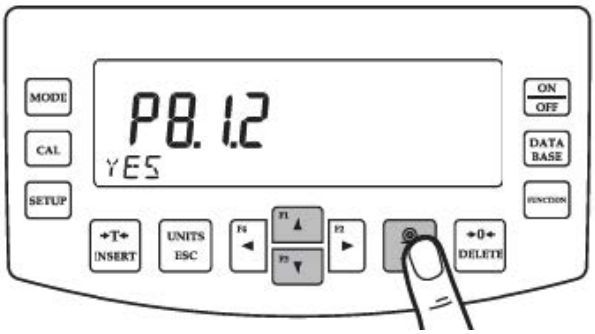
In the "Accessibility" position, press [F2 ►] key.

4



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

5

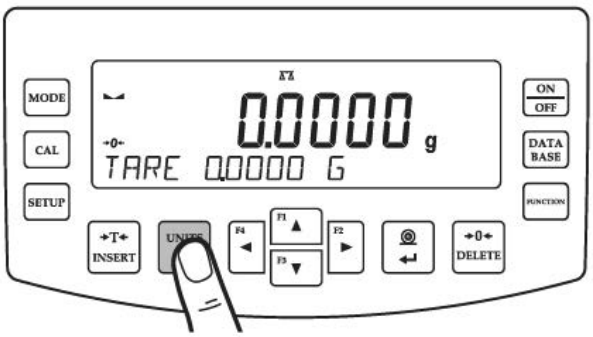


Using [▲] [▼] keys to set accessibility parameter to "Yes" value for a selected working mode and press [↵] key to confirm.

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]

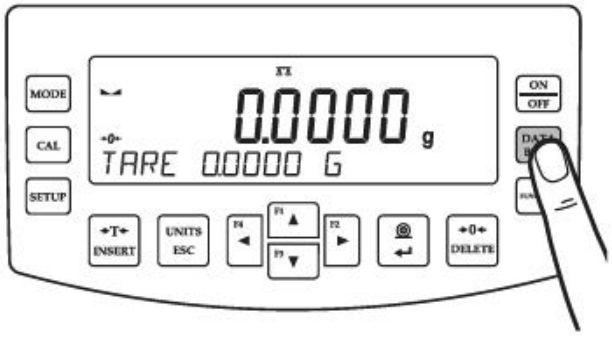
** Units available for verified balances exclusively*

9. SETTINGS

Some balance settings are accessible for Administrator exclusively.
Prior balance parameters setup, log in as the Administrator.

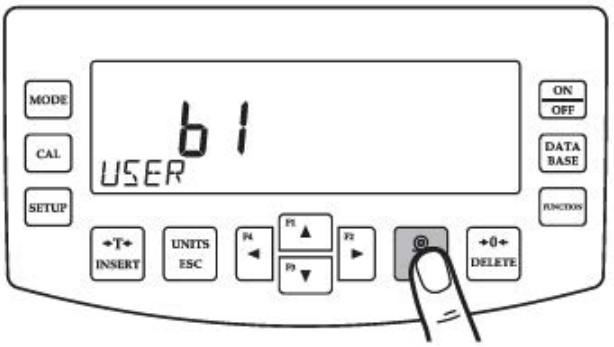
9.1. Administrator's login

1



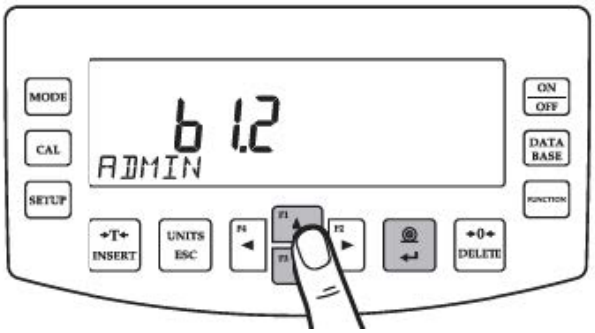
Press DATA BASE key to enter "Database" menu

2



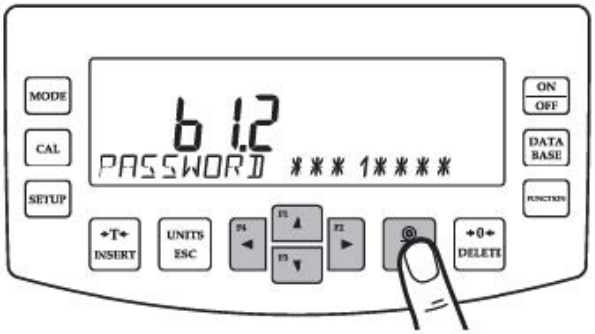
To enter user parameters, press key

3



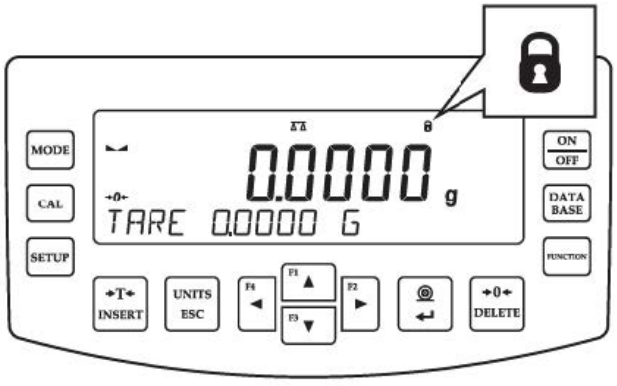
Using keys select "Admin" and press key to confirm

4



Using keys select "1111" and press key to confirm.

5



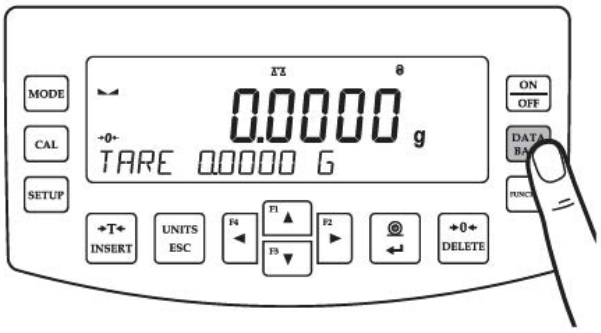
You have logged in as the administrator.

Upon logging in pictogram is displayed

9.2. User settings

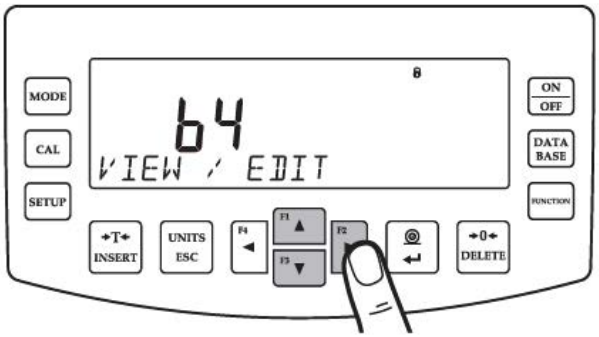
Prior balance users setup, log in as the Administrator.

1



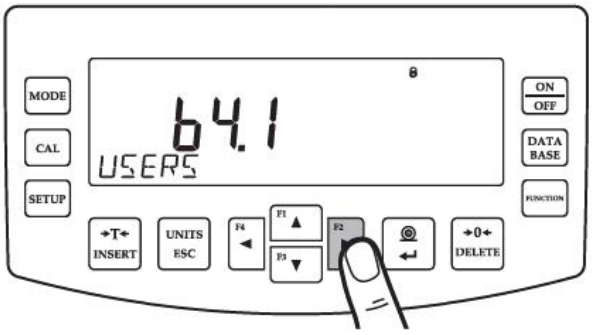
Press DATA BASE key to enter "Database" menu

2



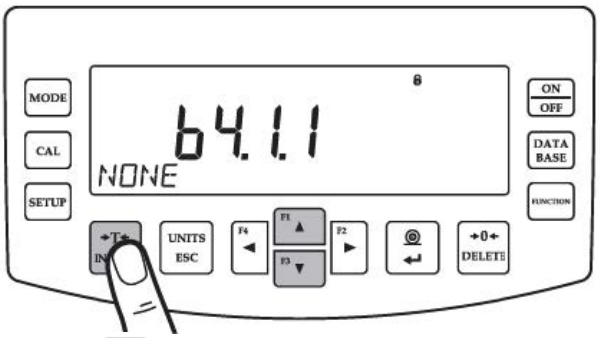
Using ▲ ▼ keys to select "View/Edit" and press F2 ► key to confirm

3



To select "Users" parameters, press F2 ► key

4



Using ▲ ▼ keys select "Admin" and press →T← INSERT key to confirm

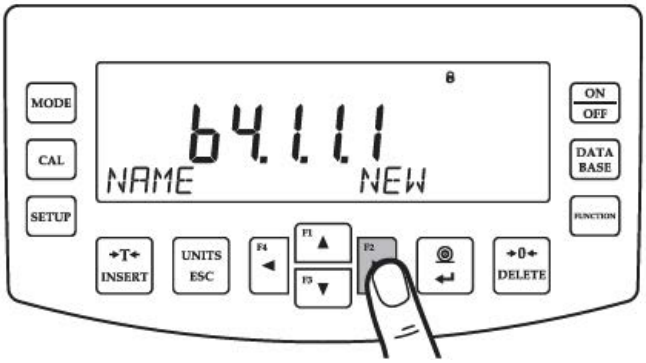
5

Press ⏎ key to add new user.

In the following steps, set:

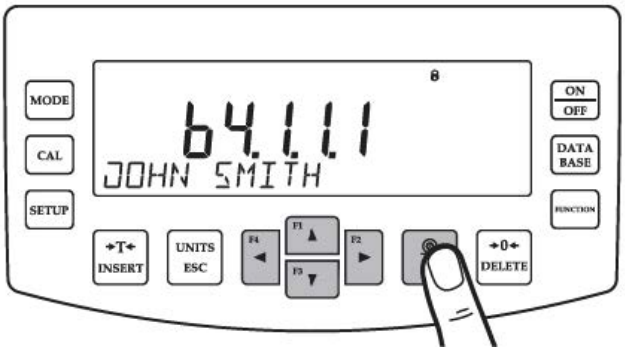
- User name
- Code
- Passsword
- Permissions level
- Language

6



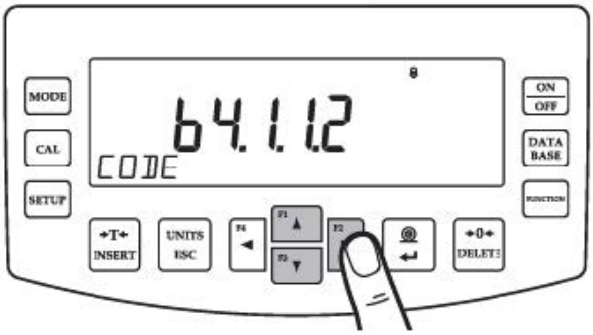
Press [F2 ►] key to add new user.

7



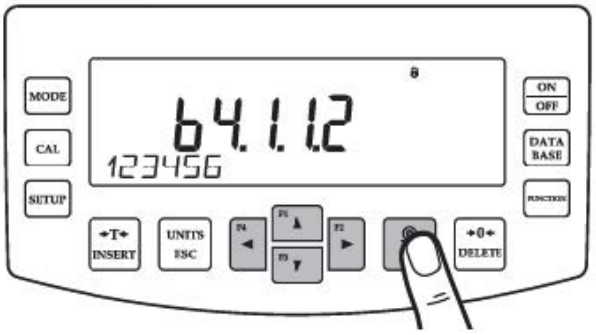
Using [▲ ▼ ◄ ►] keys to enter user name and press [↵] key to confirm

8



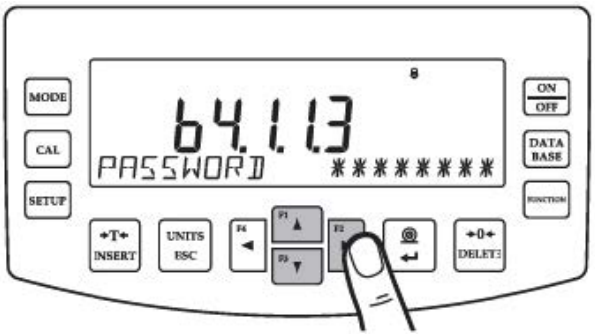
Using [▲ ▼] keys select "Code" and press [F2 ►] key

9



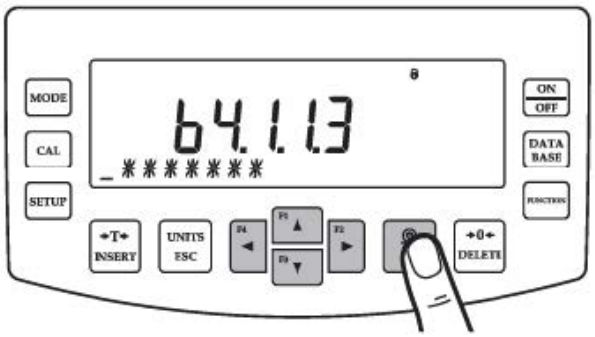
Using [▲ ▼ ◄ ►] keys enter user code and press [↵] key to confirm

10



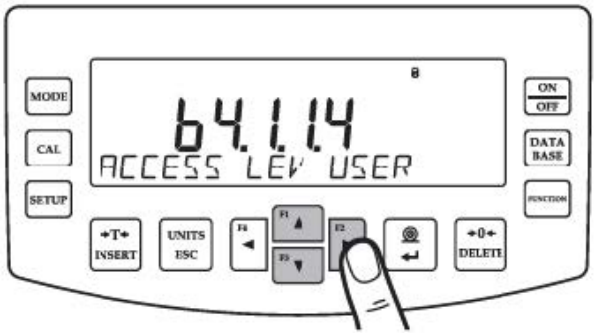
Using [▲ ▼] keys select "Password" and press [F2 ►] key to confirm

11



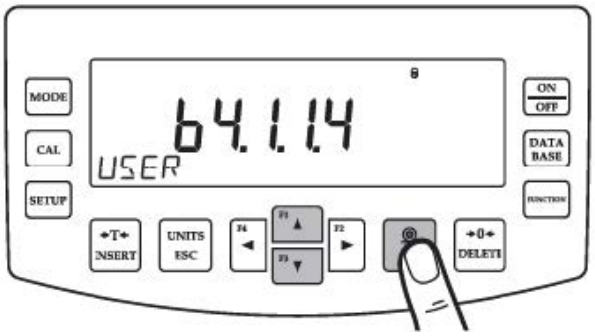
Using [▲ ▼ ◄ ►] keys enter user password and press [↵] key to confirm

12



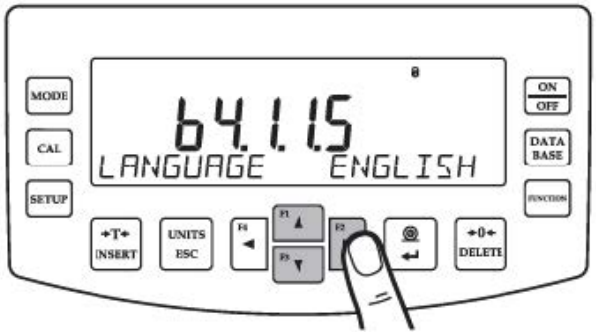
Using ▲ ▼ keys select "Access Level" and press ► key to confirm.

13



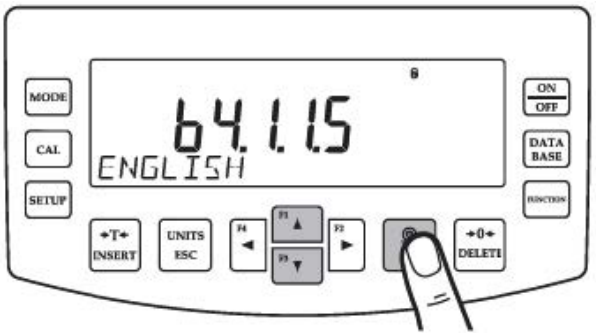
Using ▲ ▼ keys select permissions level and press ↵ key to confirm.

14



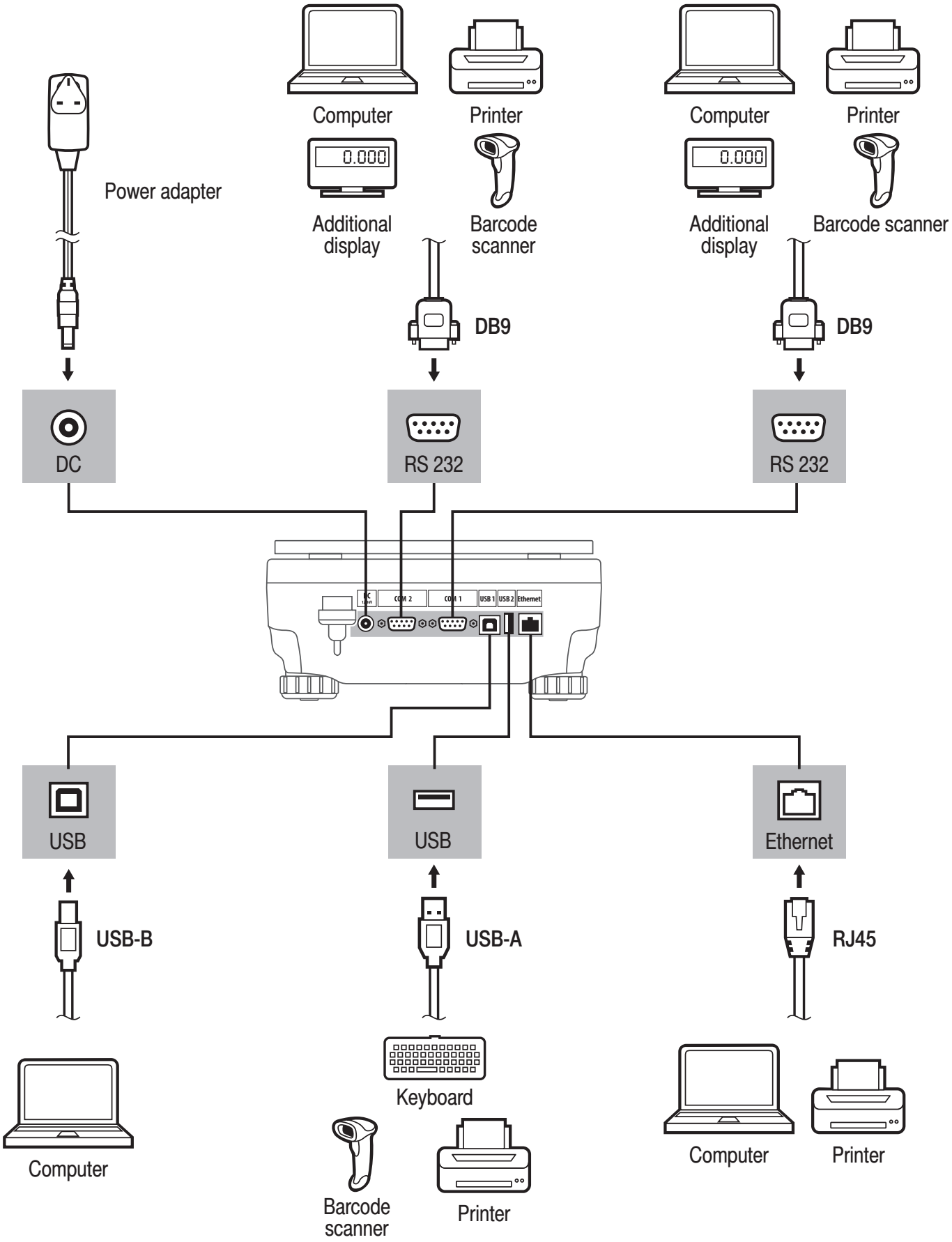
Using ▲ ▼ keys select "Language" and press ► key to confirm

15



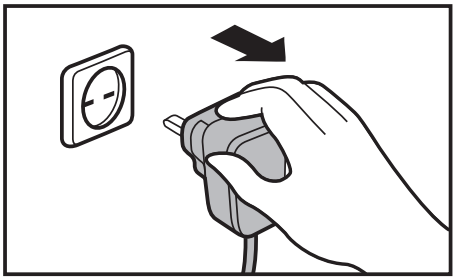
Using ▲ ▼ keys to select menu language press ↵ key to confirm.

10. PERIPHERAL DEVICES CONNECTORS

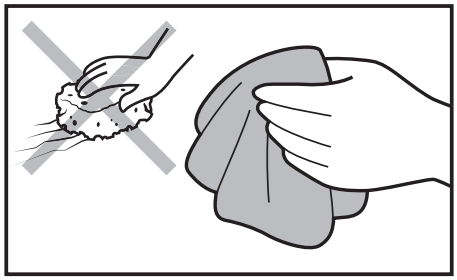


11. DEVICE CLEANING

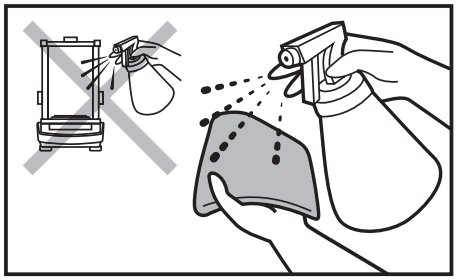
11.1. General Recommendations



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



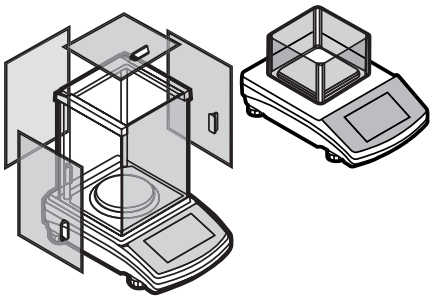
Use soft cloths made of microfiber, natural fiber or man-made fiber. Avoid using abrasive cloths or cloths that might scratch the surface.



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.

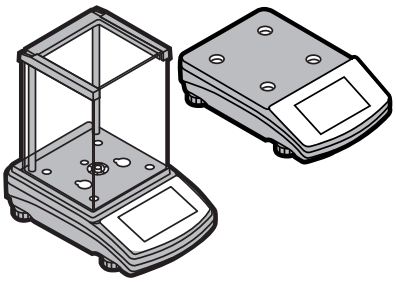
11.2. Glass components



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.

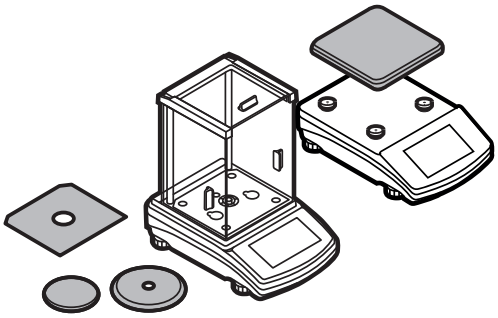
11.3. Plastic components



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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