Cole-Parmer®

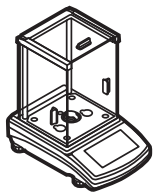
Start up Guide

TA and TT

Balance Series

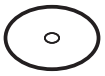
1. CONTENT

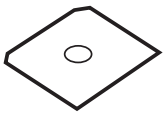
Models: TA-225.C | TA-64

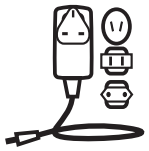

Balance
x 1


Weighing pan
x 1

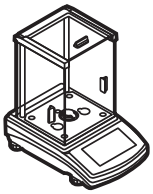

Draft shield
x 1


Centring ring
x 1


Bottom insert
x 1

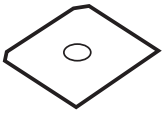

Power adapter
x 1

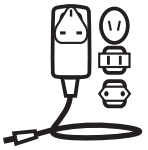
Models: TA-164.C | TA-224.C | TA-314.C | TA-164 | TA-224 | TA-314


Balance
x 1

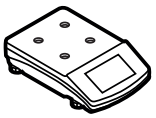

Weighing pan
x 1


Draft shield
x 1

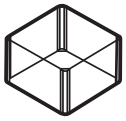

Bottom insert
x 1


Power adapter
x 1

Models: TT-363.C | TT-603.C | TT-1003.C | TT-363 | TT-603 | TT-1003

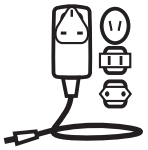

Balance
x 1


Weighing pan
x 1

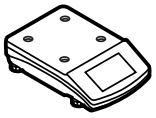

Draft shield
x 1


Grounding foot
x 1


Foot
x 3


Power adapter
x 1

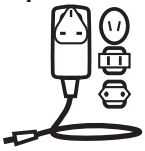
Models: TT-2102.C | TT-4502.C | TT-2102 | TT-4502 | TT-6001 | TT-10001


Balance
x 1

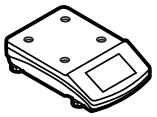

Weighing pan
x 1


Grounding foot
x 1


Foot
x 3


Power adapter
x 1

Models: TT-6002.C | TT-6002

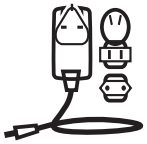

Balance
x 1


Weighing pan
x 1

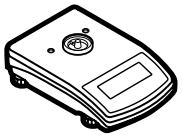

Draft shield
x 1


Grounding foot
x 1

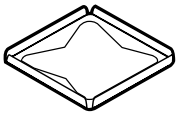

Foot
x 1

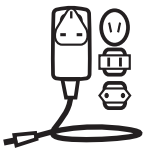

Power adapter
x 1

Models: TT-10102.C

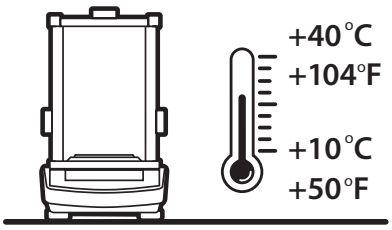

Balance
x1


Weighing pan **x1**


Draft shield
x1

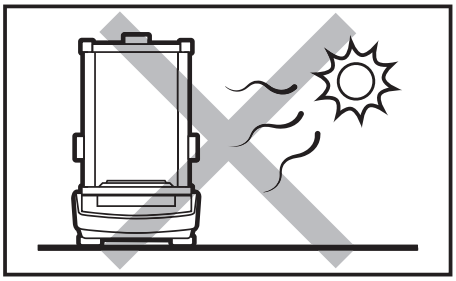

Power adapter
x 1

2. WORKROOM AND BASIC OPERATION GUIDELINES

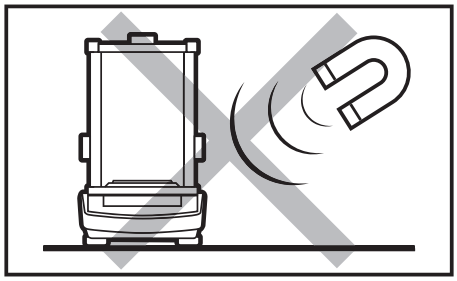


Operate the device in a room where the temperature ranges between 10–40 °C (50–104 °F) and where the relative humidity is below 80%.

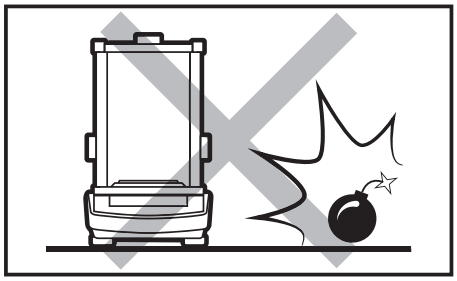
Place the balance on a solid surface to ensure stability. To obtain stable and repeatable weighing results, an anti-vibration table is recommended.



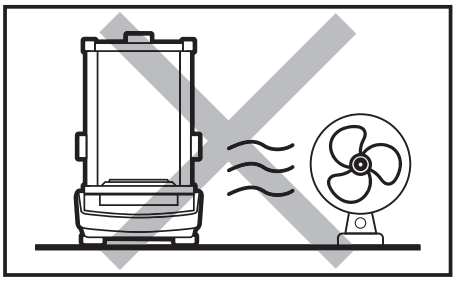
Place the balance away from heat sources. Avoid exposing the balance to the sunlight.



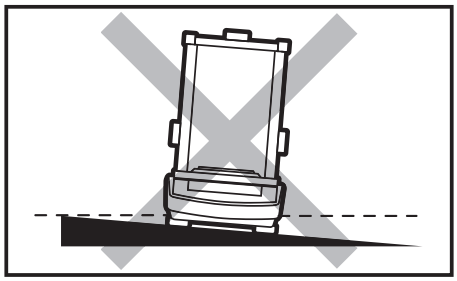
Avoid exposing the balance to a magnetic field. Do not weigh magnetic substances.



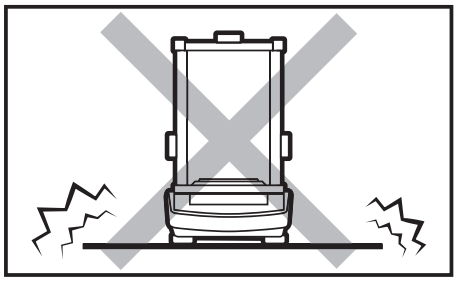
Do not place the balance in a hazardous area. Do not weigh explosive materials.



Avoid air drafts and air movements at the workstation.

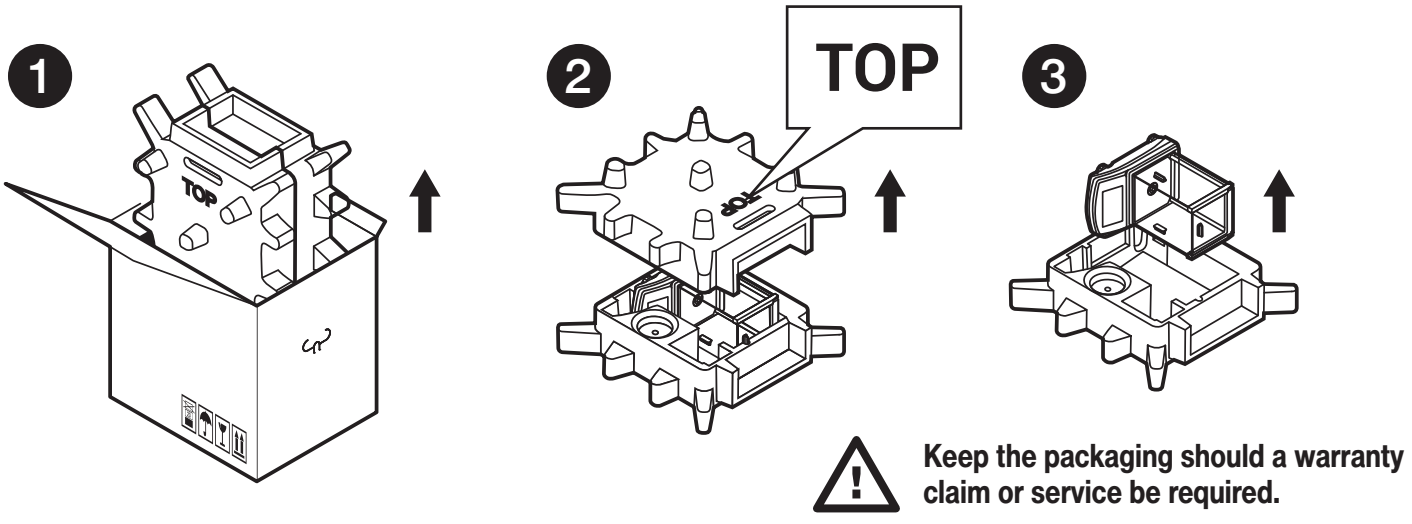


Make sure that the balance is placed on an even surface.



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

3. UNPACKING

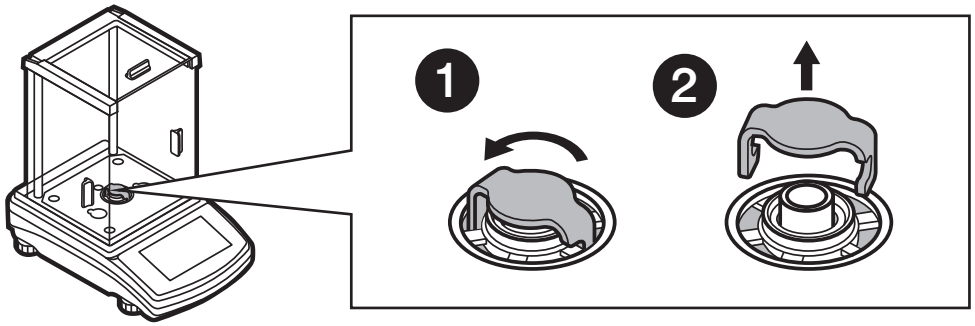


Keep the packaging should a warranty claim or service be required.

4. ACTIVITIES TO BE DONE PRIOR TO OPERATION

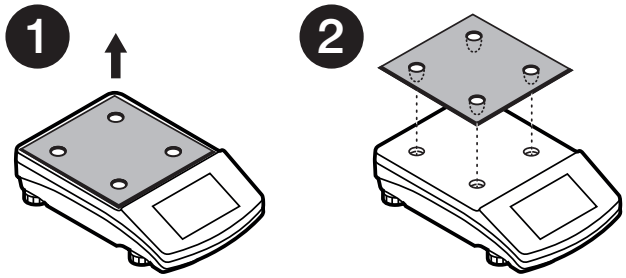
4.1. Remove transport lock

Models: TA-225.C | TA-164.C | TA-224.C | TA-314.C | TA-64 | TA-164 | TA-224 | TA-314



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

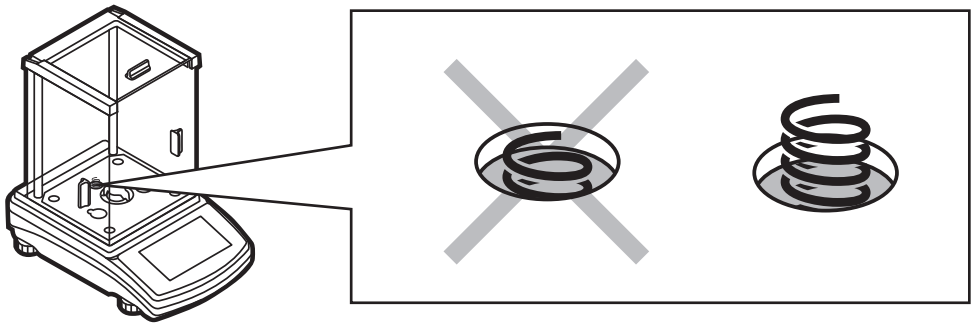
Models: TT-363.C | TT-603.C | TT-1003.C | TT-2102.C | TT-4502.C | TT-6002.C | TT-363 | TT-603 | TT-1003 | TT-2102 | TT-4502 | TT-6001 | TT-10001



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

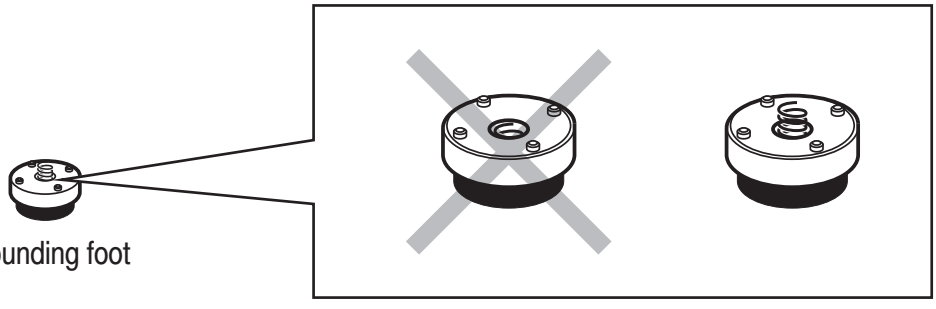
4.2. Grounding spring check

Models: TA-225.C | TA-164.C | TA-224.C | TA-314.C | TA-64 | TA-164 | TA-224 | TA-314



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

Models: TT-363.C | TT-603.C | TT-1003.C | TT-2102.C | TT-4502.C | TT-6002.C | TT-363 | TT-603 | TT-1003 | TT-2102 | TT-4502 | TT-6001 | TT-10001

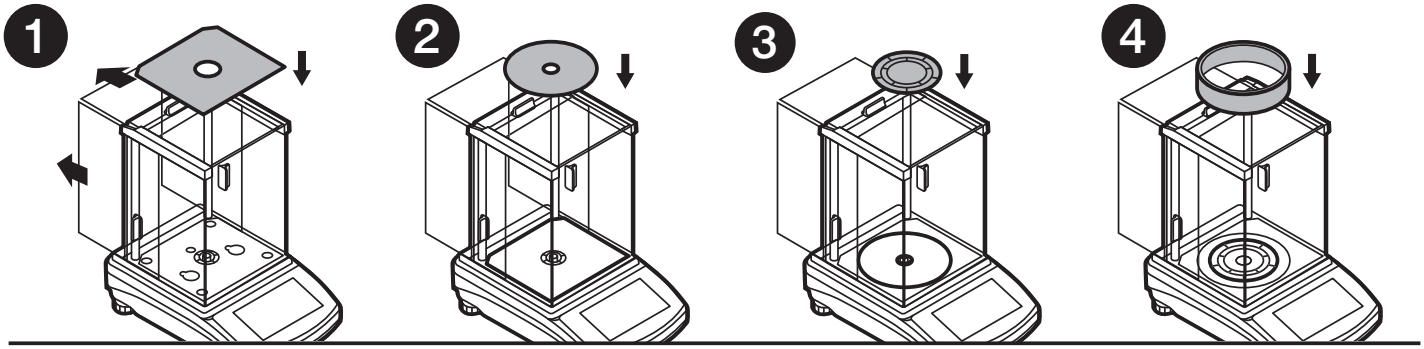


Grounding foot

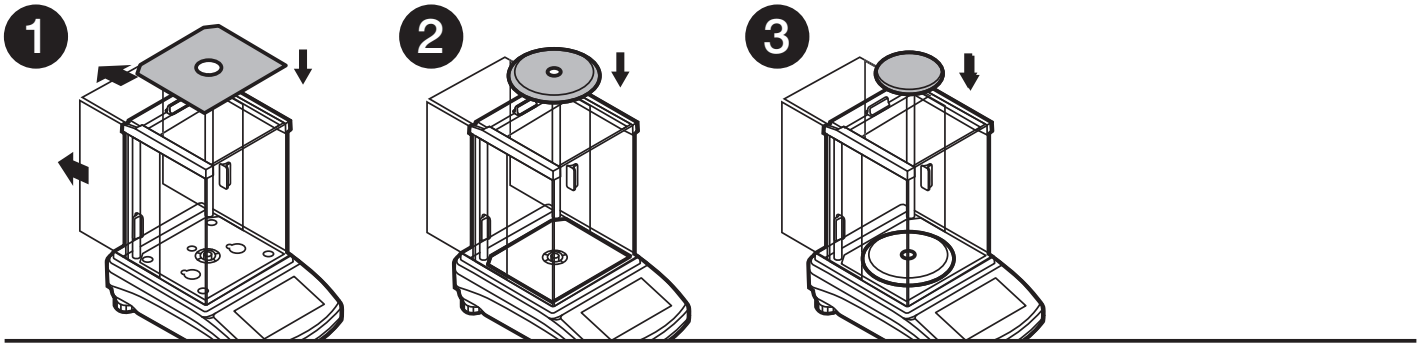
Check the grounding spring. Make sure that the grounding spring juts slightly out of the hole.

5. COMPONENTS ASSEMBLY

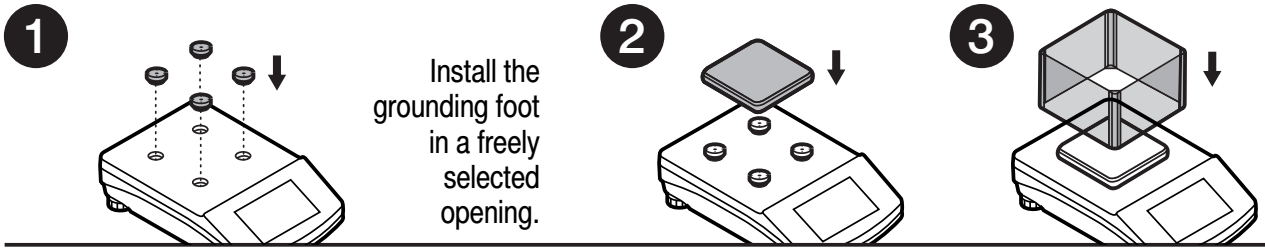
Models: TA-225.C | TA-64



Models: TA-164.C | TA-224.C | TA-314.C | TA-164 | TA-224 | TA-314

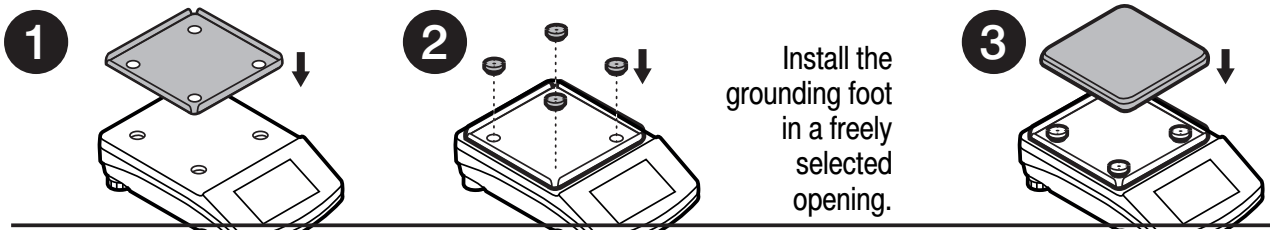


Models: TT-363.C | TT-603.C | TT-1003.C | TT-363 | TT-603 | TT-1003

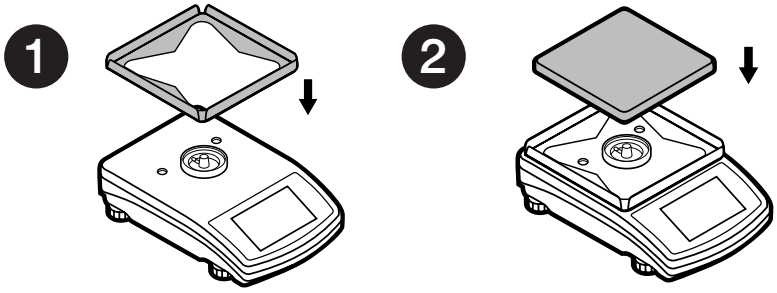


Models: TT-2102.C | TT-4502.C | TT-2102 | TT-4502 | TT-6001 | TT-10001

Models: TT-6002.C | TT-6002

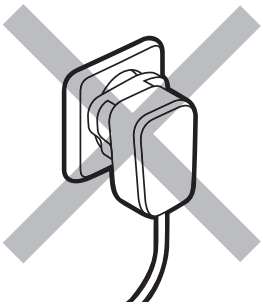


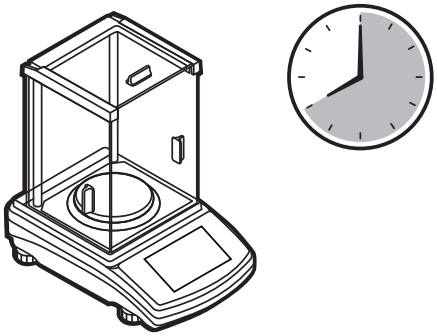
Models: TT-10102.C



6. PREPARING FOR WORK

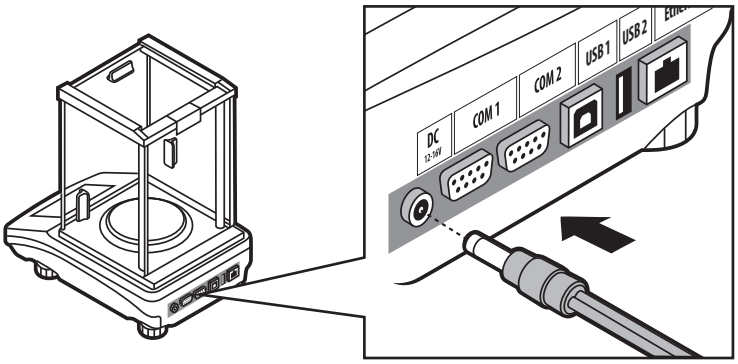
6.1. Balance temperature stabilization time

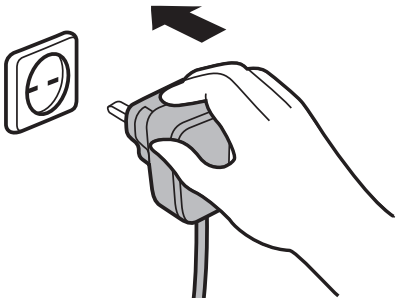




Prior to switching the device on, it is necessary to ensure that it has reached a temperature equal to room temperature.

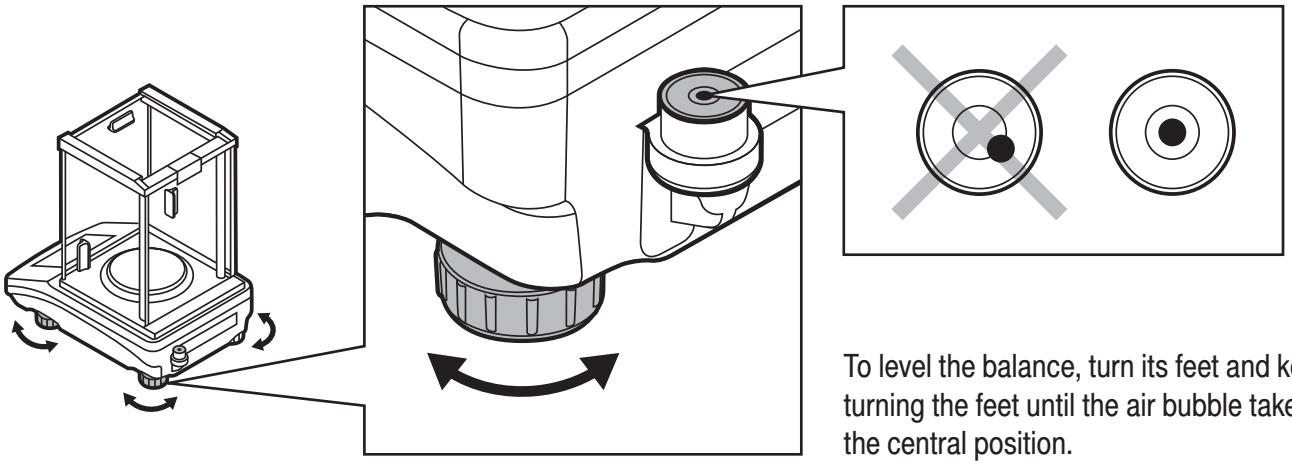
Balance temperature stabilization time ranges between 1 - 8 hours.





Connect the power adapter to DC connector.

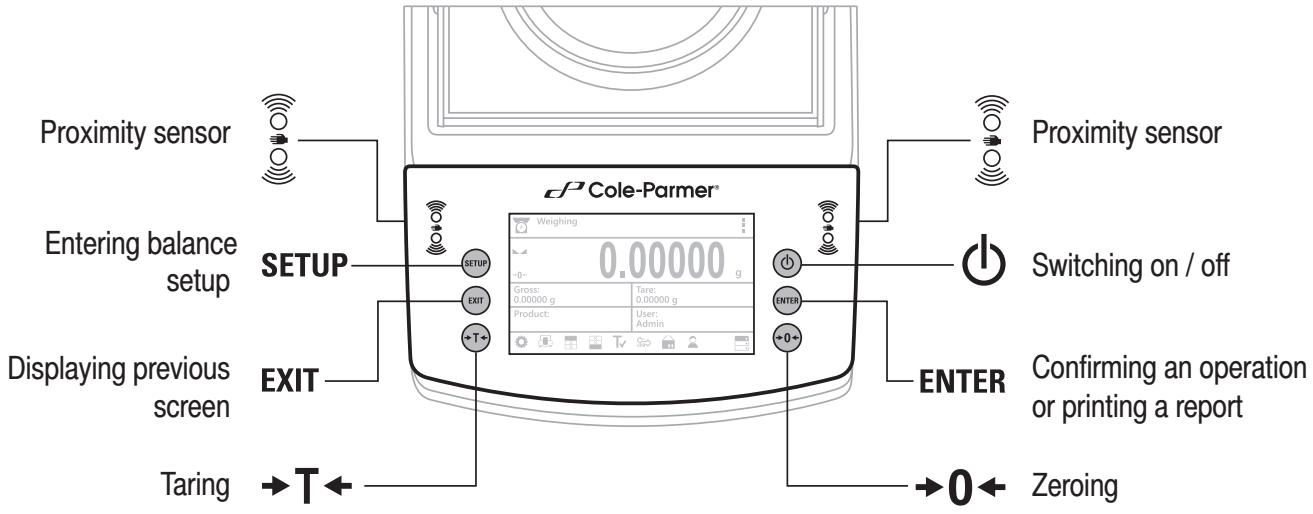
Connect the power adapter to the mains.



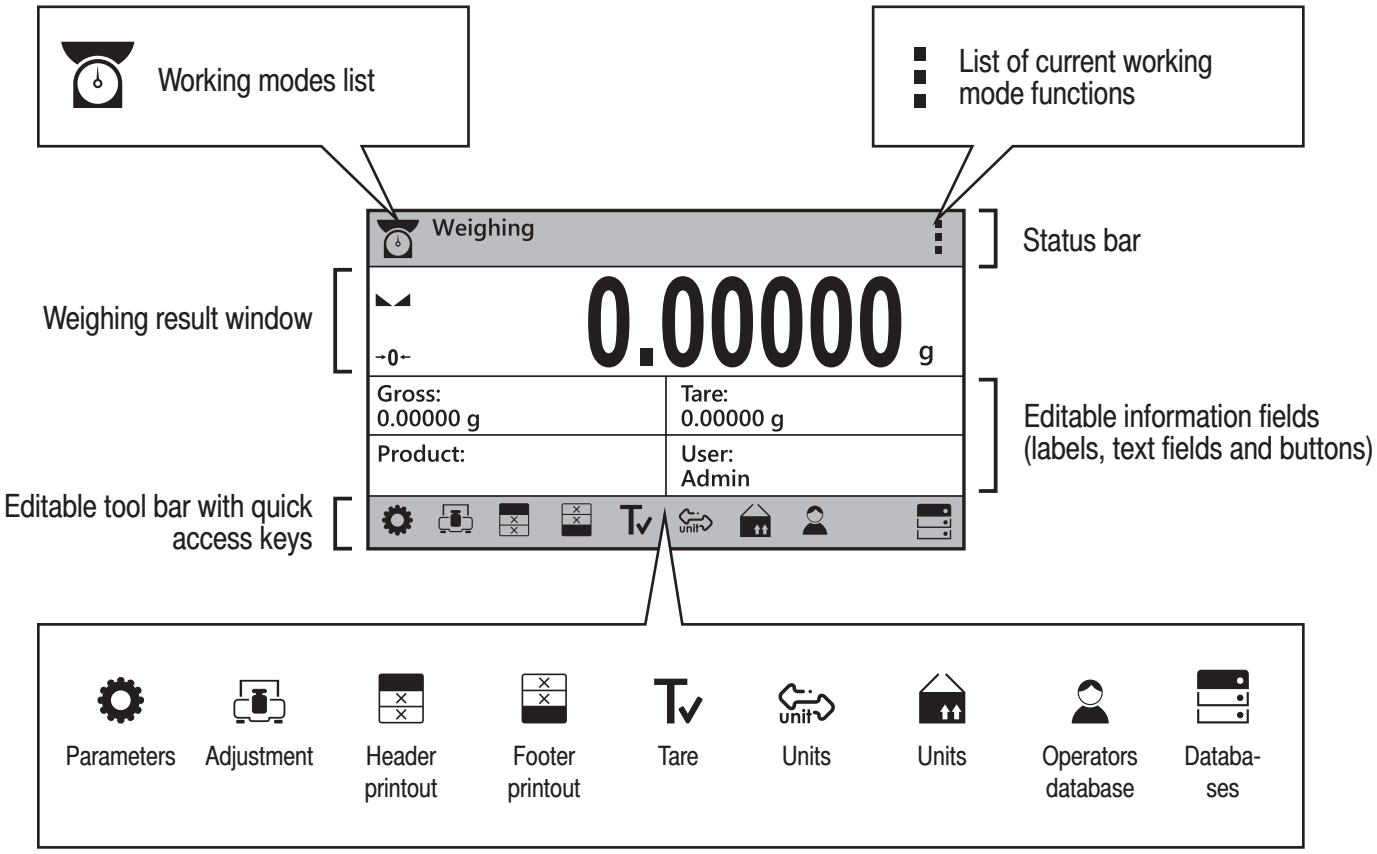
To level the balance, turn its feet and keep turning the feet until the air bubble takes the central position.

7. PANEL AND SCREEN

7.1. Panel keys



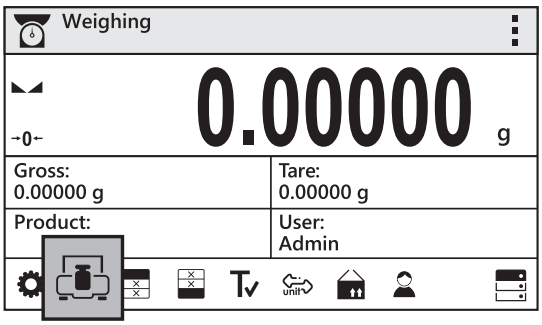
7.2. Home screen



8. BASIC OPERATIONS

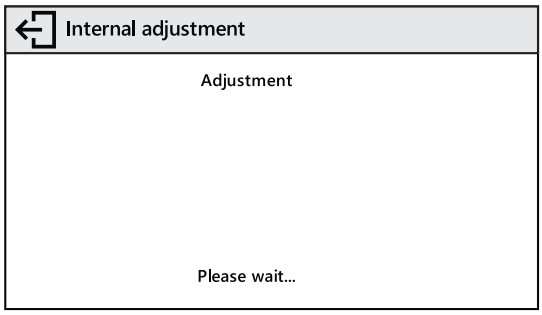
8.1. Adjustment-TA.C AND TT.C Models

1



Press "Adjustment" button.

2



Wait for the process completion.

8.2. Adjustment-TA AND TT Models

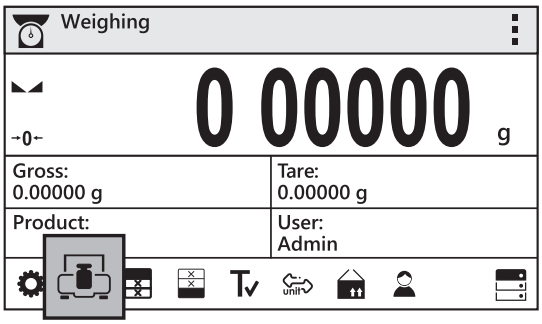
External adjustment is carried out using an external mass standard of the right accuracy and weight value, which value depends on balance type and capacity.

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.

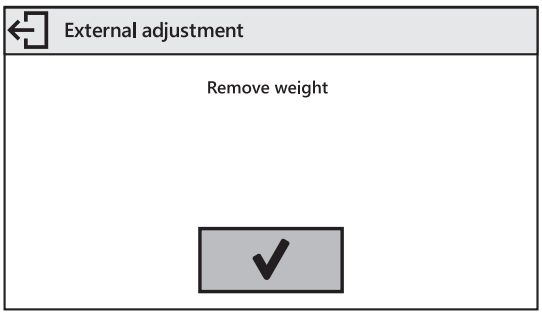
Balance model	Mass standard [g]	Balance model	Mass standard [g]
TA-64	50	TT-1003	1 000
TA-124	100	TT-2102	1 000
TA-214	200	TT-4502	2 000
TA-314	200	TT-6002	5 000
TT-363	200	TT-6001	5 000
TT-603	500	TT-10001	10 000

1



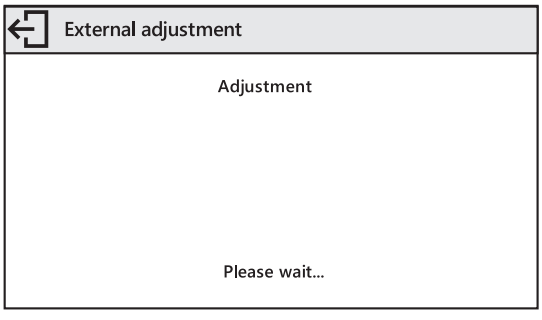
Press "Adjustment" button.

2



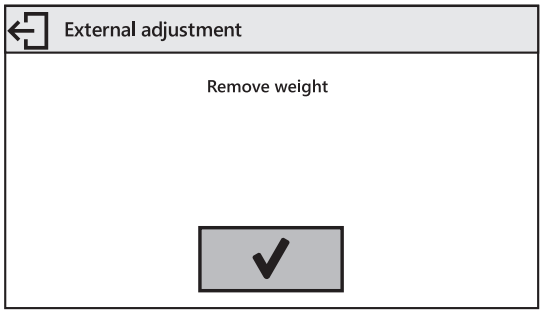
Unload the weighing pan and press ✓ button for confirmation.

3



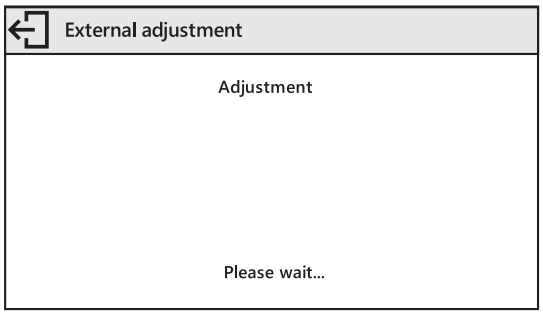
Wait for completion of the start mass determination process.

4



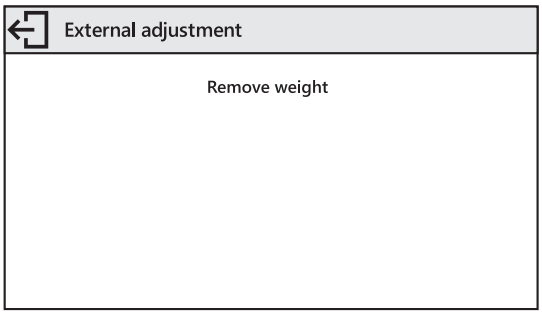
Load the weighing pan with mass standard and press ✓ button for confirmation.

5



Wait for the process completion.

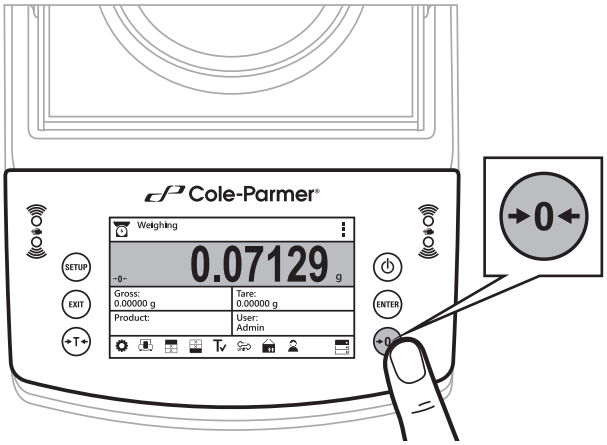
6



Unload the weighing pan.

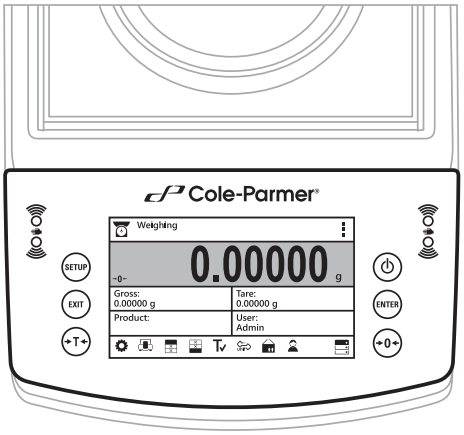
8.3. Zeroing

1



Unload the weighing pan and press "Zeroing" button.

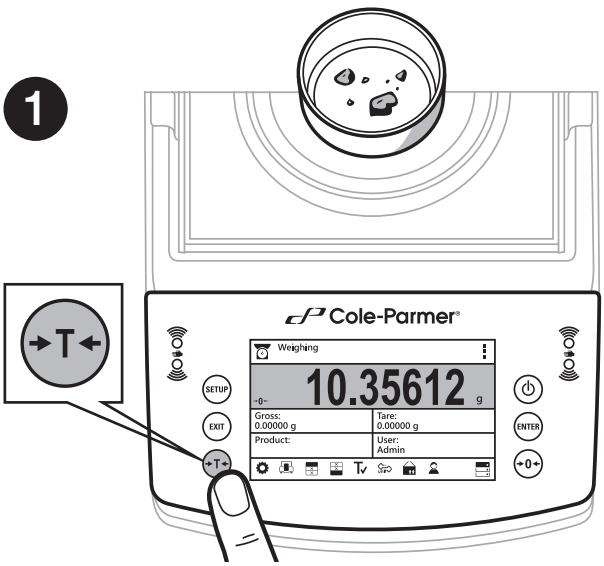
2



The balance has been zeroed.

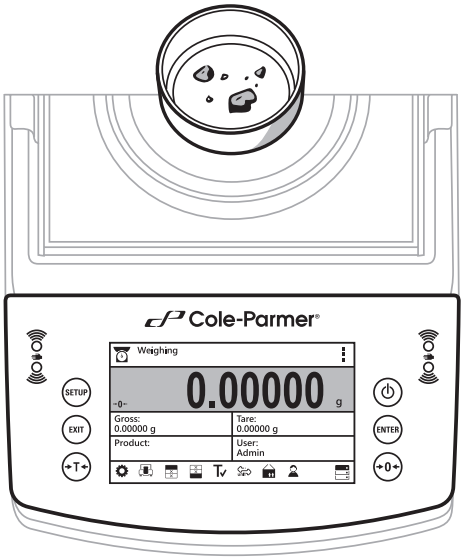
8.4. Taring

1



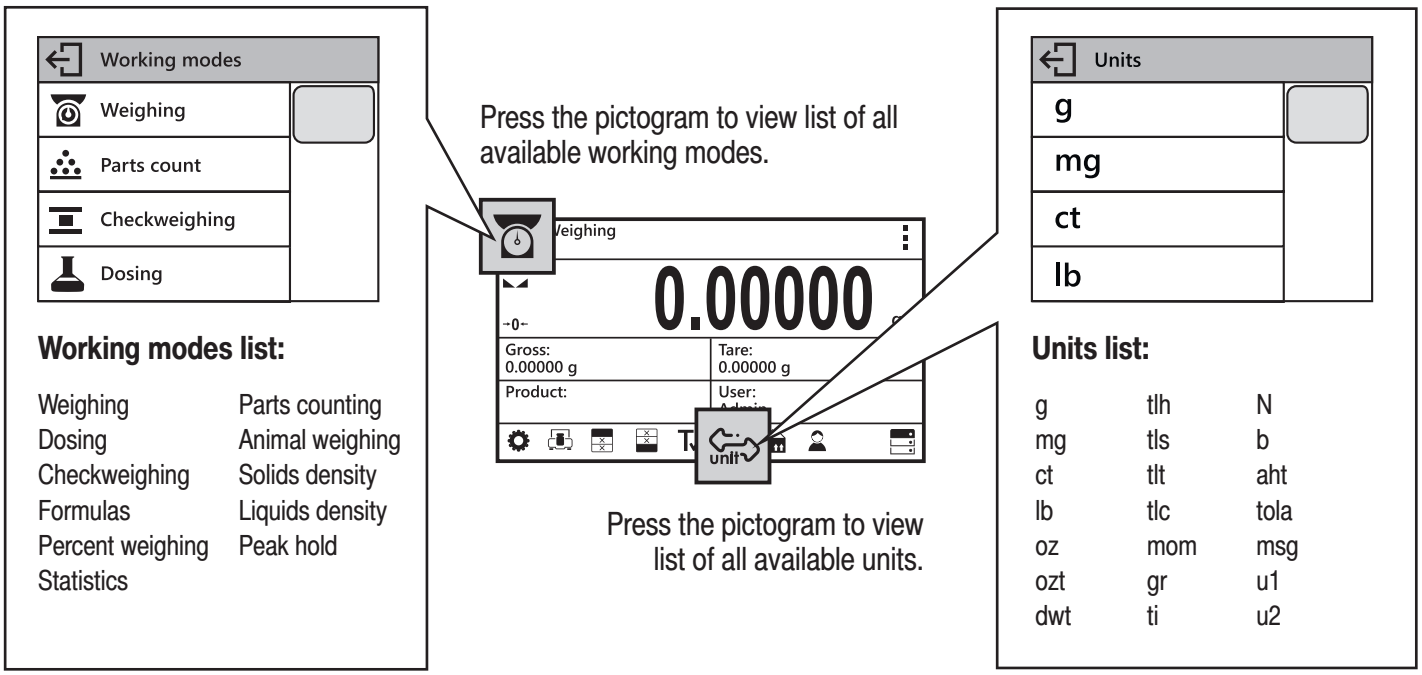
When the weighing result has been displayed press "Tare" button.

2



The balance has been tared.

8.5. Working modes / units selection



Working modes list:

Weighing
Parts counting
Dosing
Animal weighing
Checkweighing
Solids density
Formulas
Liquids density
Percent weighing
Peak hold
Statistics

Units list:

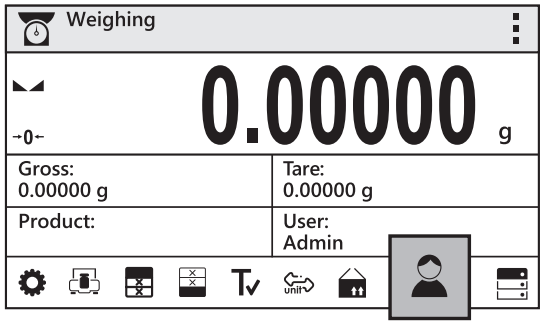
g	tlh	N
mg	tls	b
ct	tlt	aht
lb	tlc	tola
oz	mom	msg
ozt	gr	u1
dwt	ti	u2

9. SETTINGS

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

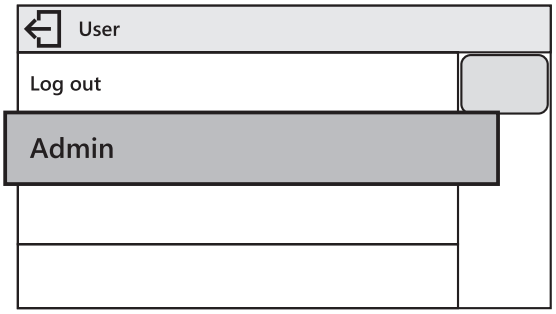
9.1. Administrator's login

1



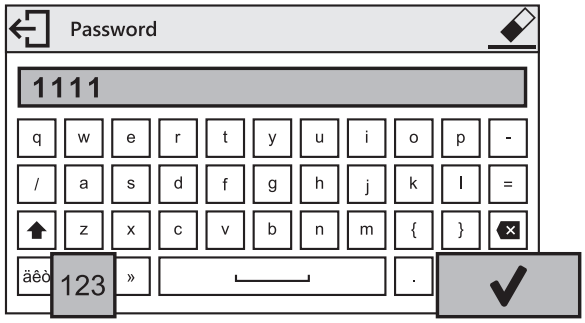
Press "Operators" button.

2



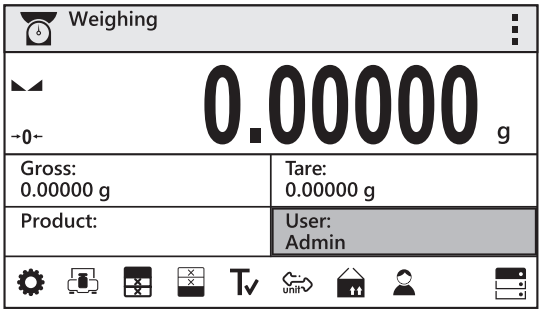
Users list is displayed, select Admin option.

3



Press [123] button to activate numeric keyboard. Enter "1111" password and press [✓] button to confirm.

4

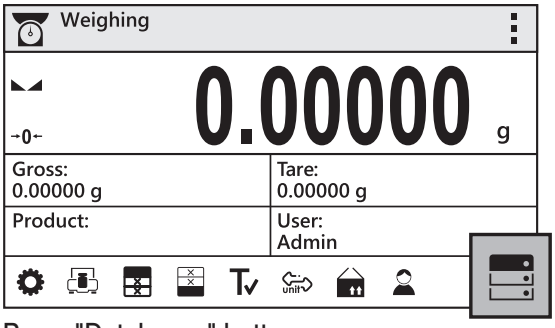


You have logged in the administrator.

9.2. User settings

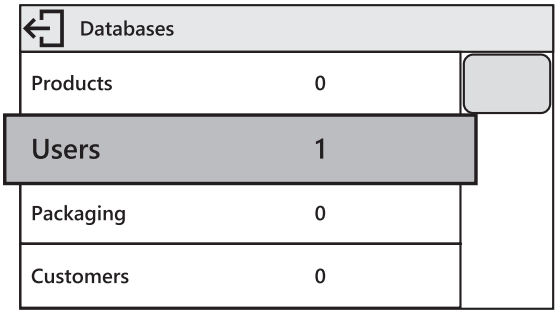
Prior balance users setup, log in as the Administrator.

1



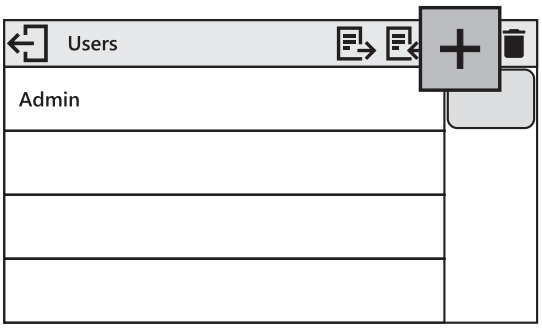
Press "Databases" button.

2



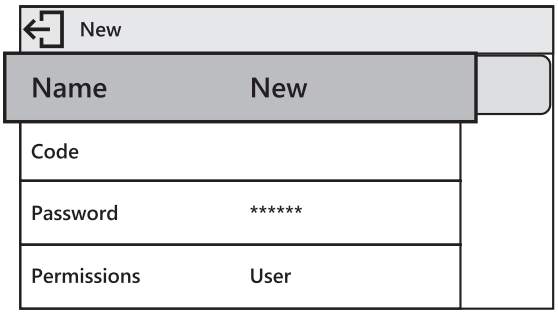
Select Operator database.

3



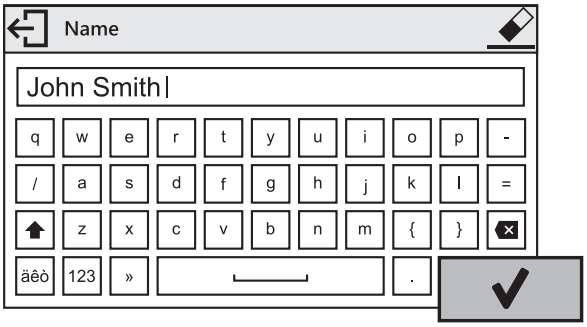
Press "Add" button.

4



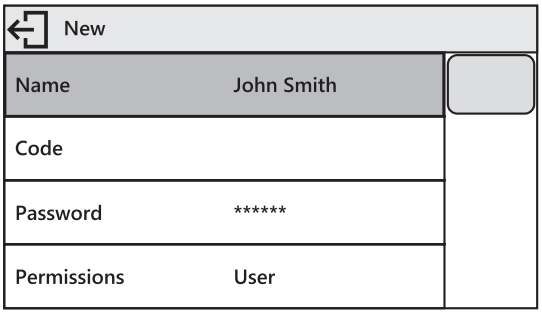
Select "Name" parameter.

5



Enter user name.

6



User name has been entered.

7

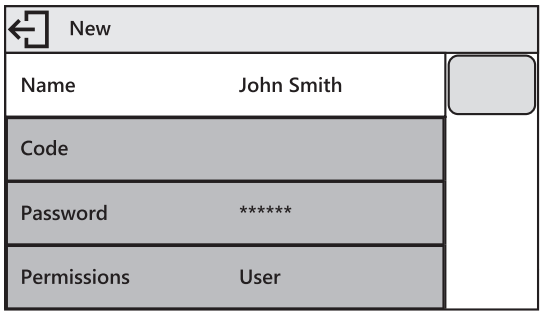
Following the above procedure, set remaining parameters:

Code:

Enter user ID

Password:
Enter user password

Access levels:
Set respective access level (user, advanced, admin)

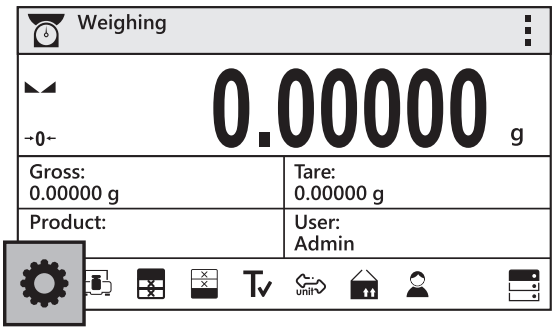


9.3. Proximity sensors setup

Prior proximity sensors setup, log in as the Administrator.

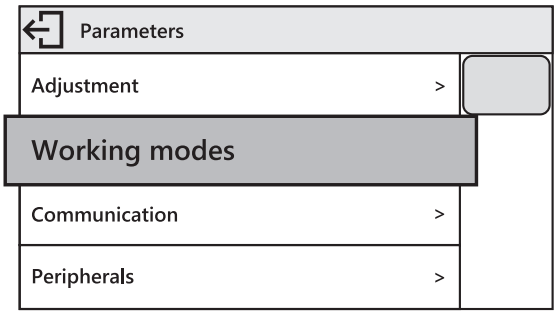
You can assign the proximity sensors with different functions for each working mode (the sensors will trigger different operation for each working mode). The diagram presents sensors setup for the weighing mode.

1



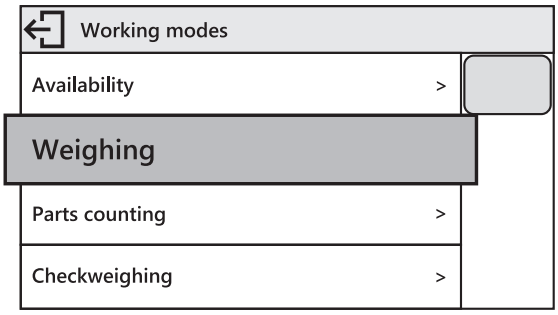
Press "Parameters" button.

2



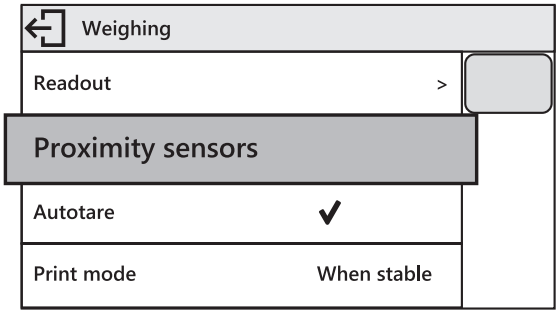
Parameters list is displayed, select Working Modes parameter.

3



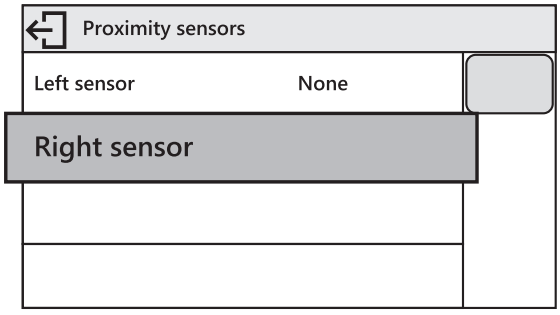
Select Weighing parameter.

4



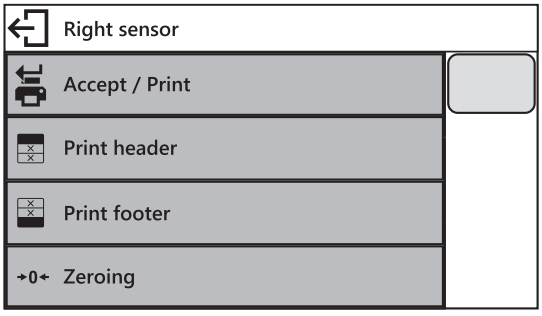
Select Proximity Sensors parameter.

5



Select Right Sensor parameter.

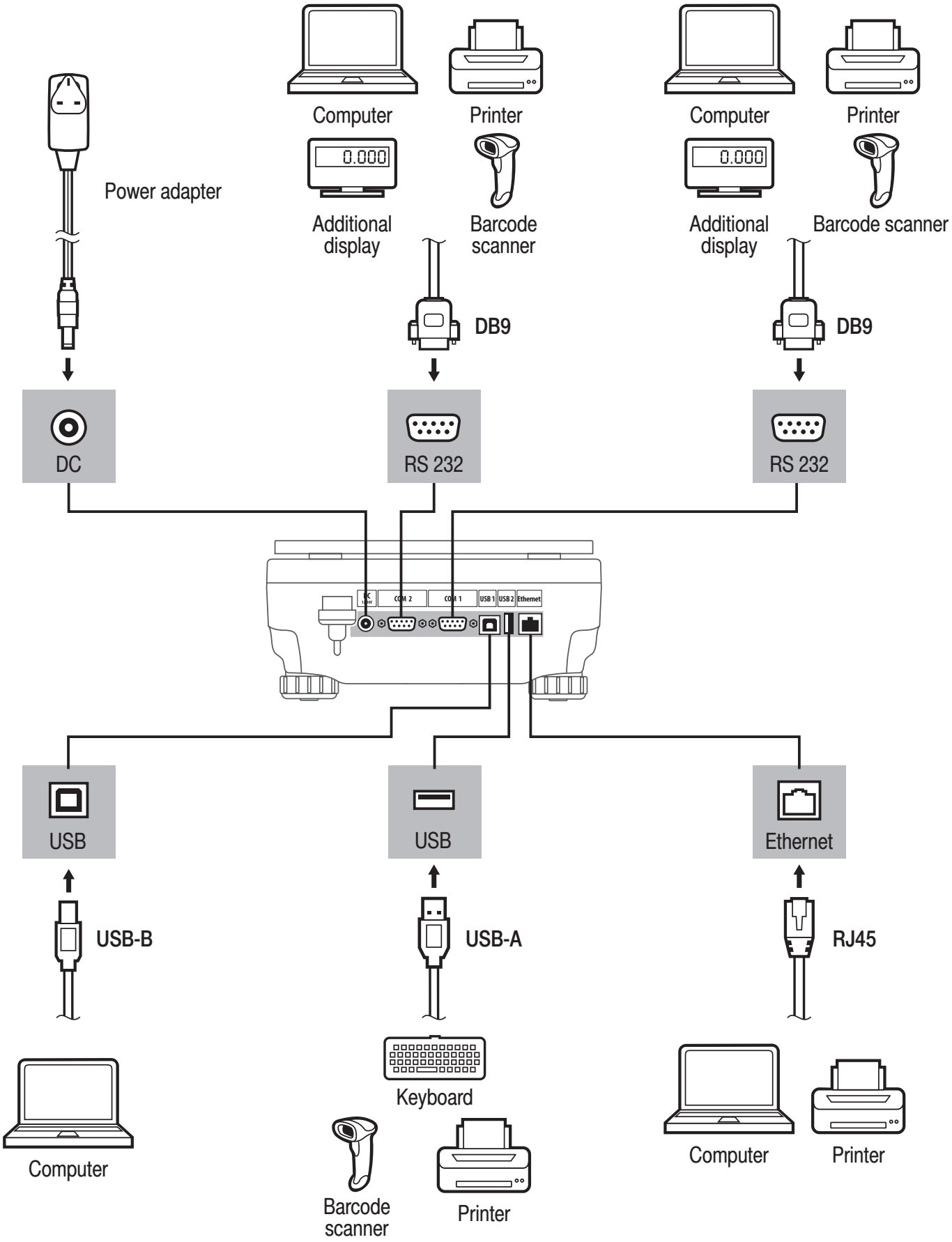
6



Select function that is to be assigned to the right proximity sensor.

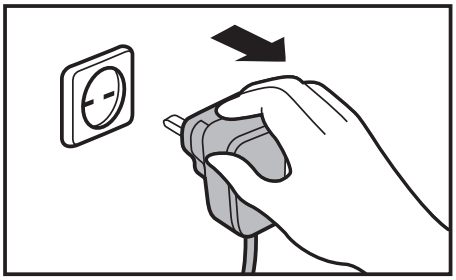
In order to set left sensor function repeat steps 5 and 6, this time select Left Sensor parameter. Following the above procedure you can also set sensors for remaining working modes.

10. PERIPHERAL DEVICES CONNECTORS

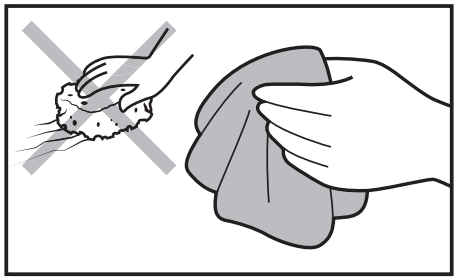


11. DEVICE CLEANING

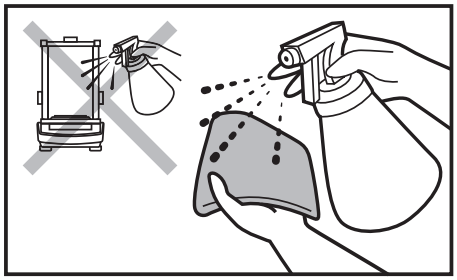
11.1. General Recommendations



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



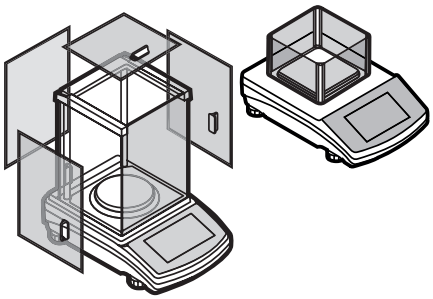
Use soft cloths made of microfiber, natural fiber or man-made fiber. Avoid using abrasive cloths or cloths that might scratch the surface.



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.

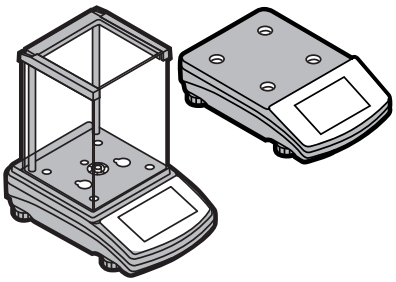
11.2. Glass components



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.

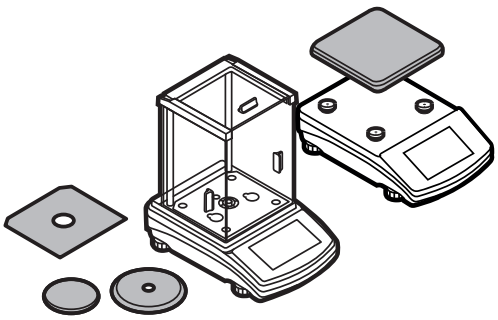
11.3. Plastic components



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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