

Start up Guide

TCS

Series Balances

1. CONTENT

Models: TCS-203



Balance
x1



Draft shield
x1



Weighing pan
x1



Power adapter
x1

Models: TCS-602 | TCS-2002 | TCS-3101



Balance
x1



Draft shield
x1



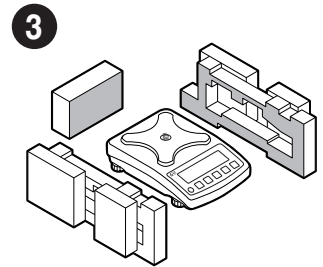
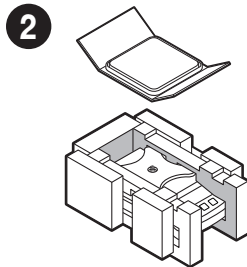
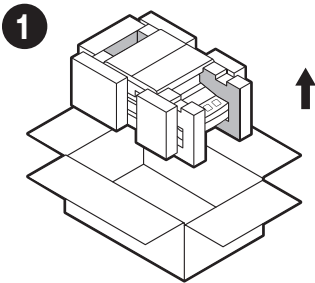
Weighing pan
x1



Power adapter
x1

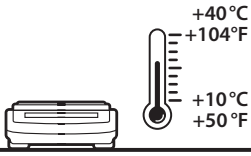
**The plug type may vary by country.*

2. UNPACKING



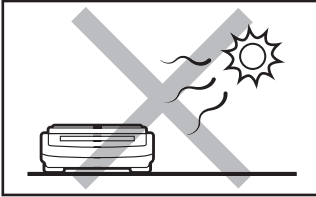
Keep the packaging should a warranty claim or service be required.

3. RECOMMENDATIONS AND WARNINGS

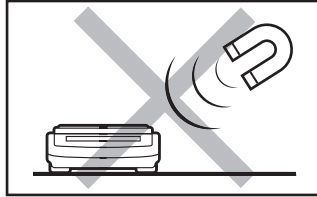


Operate the device in a room where the temperature ranges between 10–40 °C (50–104 °F) and where the relative humidity is below 80%.

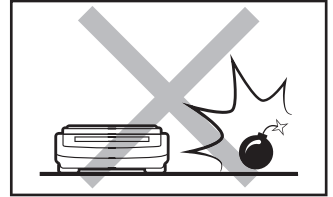
Place the balance on a solid surface to ensure stability. To obtain stable and repeatable weighing results, an anti-vibration table is recommended.



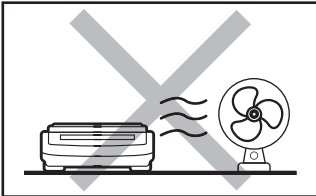
Place the balance away from heat sources. Avoid exposing the balance to the sunlight.



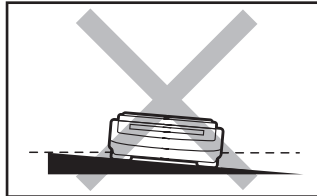
Avoid exposing the balance to a magnetic field. Do not weigh magnetic substances.



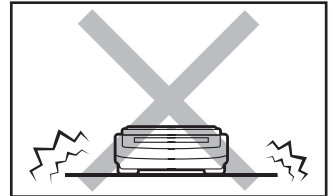
Do not place the balance in a hazardous area. Do not weigh explosive materials.



Avoid air drafts and air movements at the workstation.



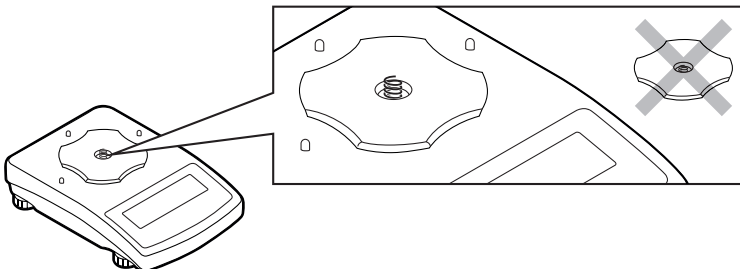
Make sure that the balance is placed on an even surface.



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

4. ACTIVITIES TO BE DONE PRIOR TO OPERATION

4.1. Grounding spring check

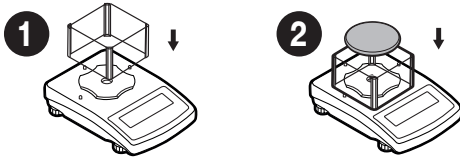


Check the grounding spring is in the correct location.

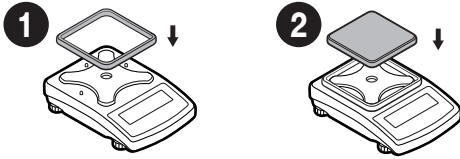
Make sure the spring juts slightly out of the hole.

5. COMPONENTS ASSEMBLY

Models: TCS-203

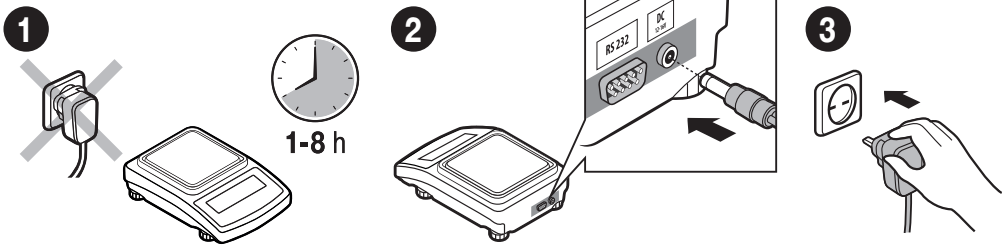


Models: TCS-602 | TCS-2002 | TCS-3101



6. PREPARING FOR WORK

6.1. Temperature stabilization time

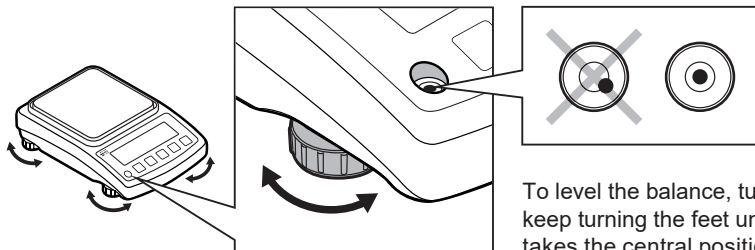


Prior to switching the device on, let it reach room temperature (estimated stabilization time: 1-8 hours).

Connect the power adapter to DC connector.

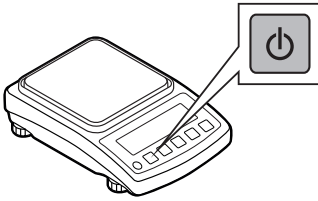
Connect the power adapter to the mains.

6.2. Leveling



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

6.3. Switch the balance on

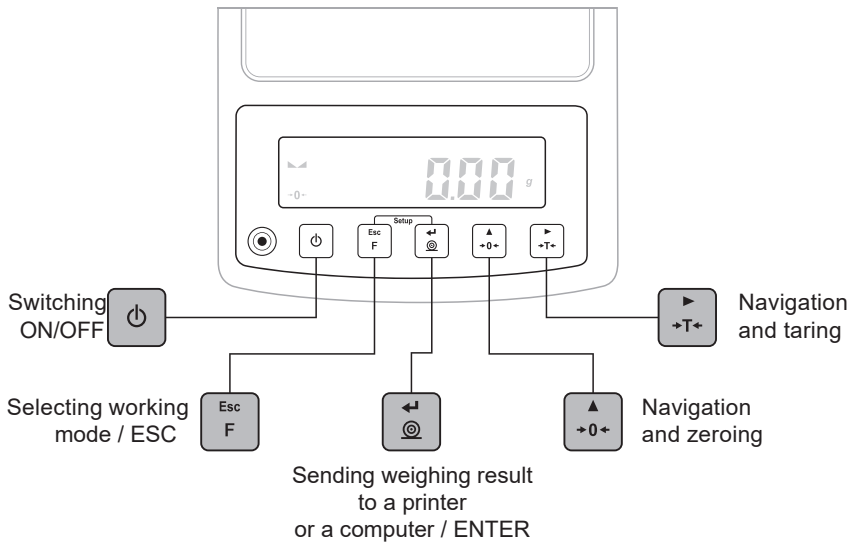


Your balance is ready to use!

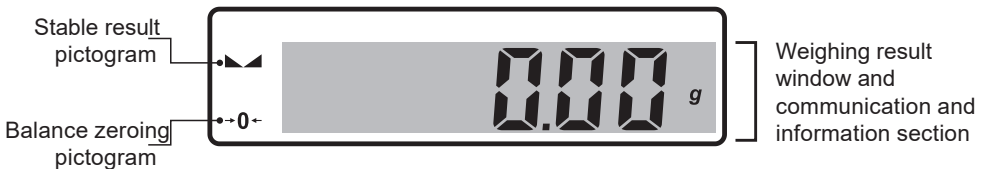
To switch the device on, press ON / OFF key.

7. PANEL AND SCREEN

7.1. Panel keys



7.2. Home screen



8. BASIC OPERATIONS

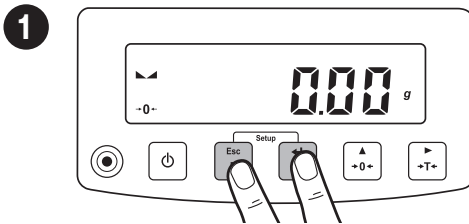
8.1. Adjustment

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.

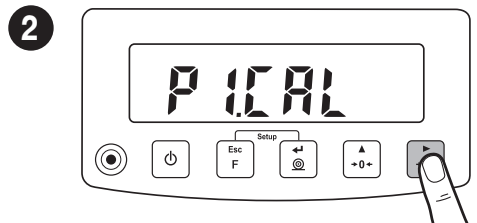


Prior to adjustment prepare the right mass standard. You are recommended to use a mass standard of class F1 or F2. View the table and select the mass standard you need.

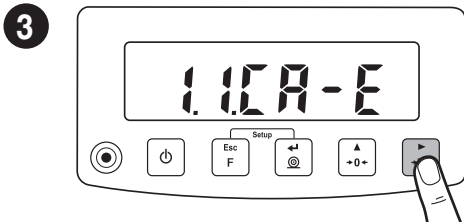
| Balance model | Mass standard [g] |
|---------------|-------------------|
| TCS-203 | 200 |
| TCS-602 | 500 |
| TCS-2002 | 2 000 |
| TCS-3101 | 2 000 |



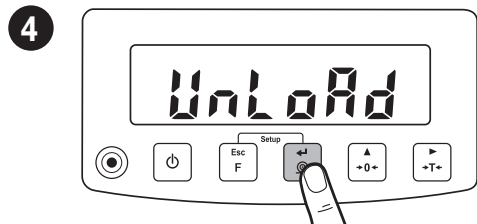
Simultaneously press + keys to enter home screen.



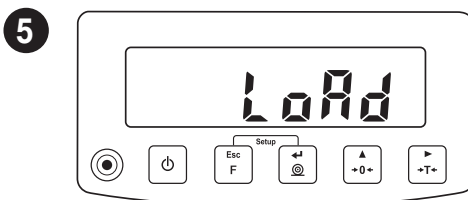
While "P1.CAL" parameter is on, press key.



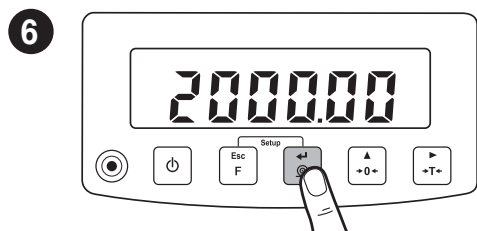
While "1.1.CA-E" parameter is on, press key.



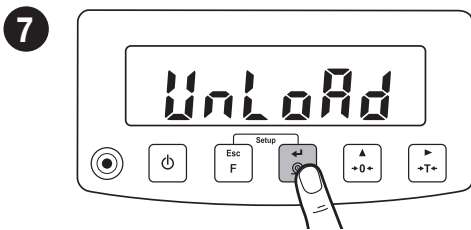
Unload the weighing pan and press key.



Prepare suitable mass standard.



Load the weighing pan with the mass standard and press key.

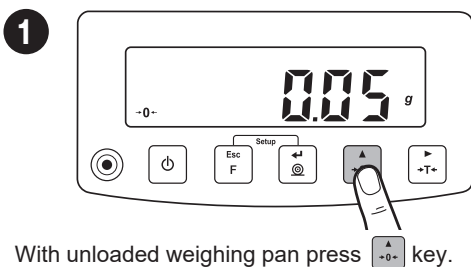



Unload the weighing pan.

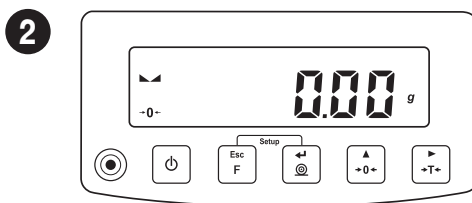


Adjustment completed.

8.2. Zeroing

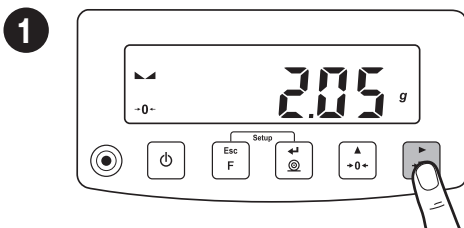



With unloaded weighing pan press  key.

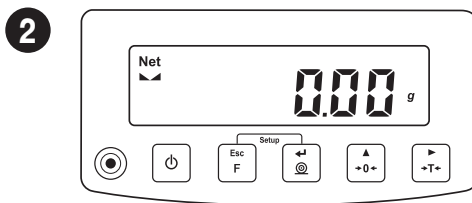


The balance has been zeroed.

8.3. Taring

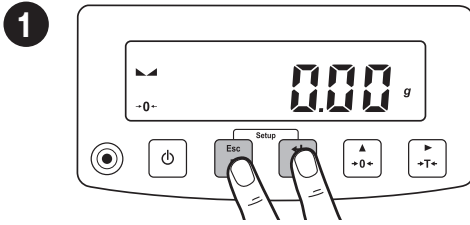




With loaded weighing pan, upon result stabilization, press  key.

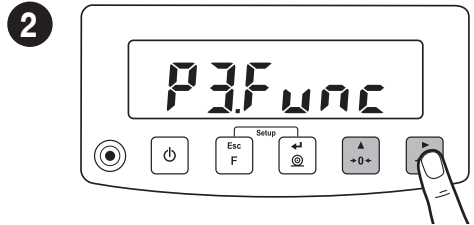




The balance has been tared.

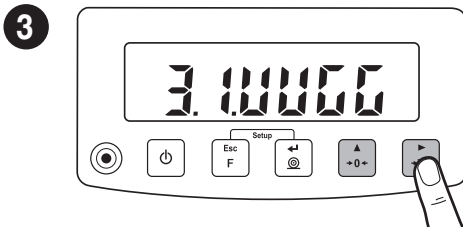
8.4. Working modes accessibility




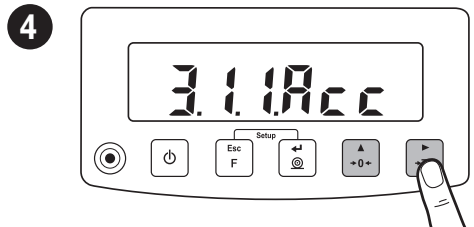
Simultaneously press  +  keys to enter home screen.





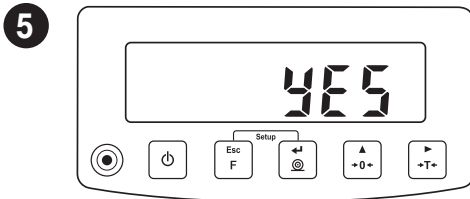
Using  key select "P3.Func" parameter and press  key.





While "3.1.UUGG" parameter is on, press  key.



Using  key select "3.1.1Acc" parameter and press  key.

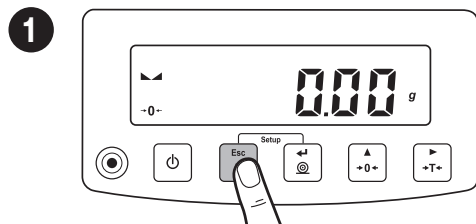


Using  key select "YES" value and press  key to confirm.

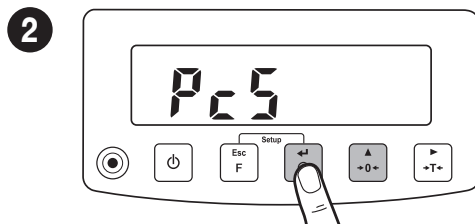


In order to enable other working modes, repeat the steps: **3** and **4**
Save working mode settings - section **5**

8.5. Selecting working mode



Using key enter working modes menu.



Using key select working mode and press .

The menu features the following working modes:

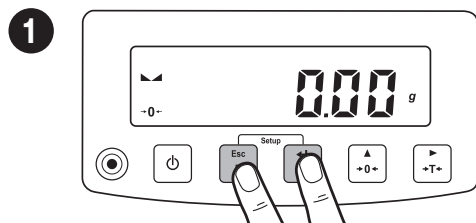
- Weighing
- Parts counting
- +/- Control
- Percent Weighing
- Peak Hold
- Totalizing

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

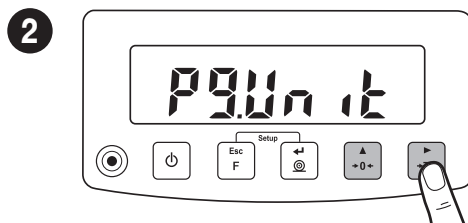
8.6. Weighing unit selection



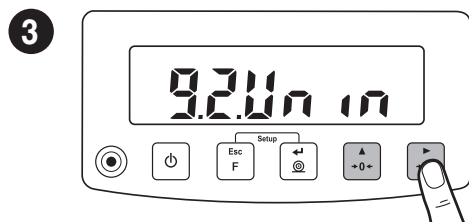
When the main unit is g (gram), the user has the following units: g (gram), ct (karat), lb (pound).



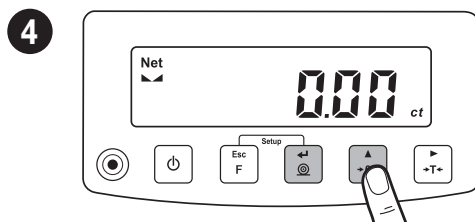
Simultaneously press + keys to enter home screen.



Using key select "P9.Unit" parameter and press key.

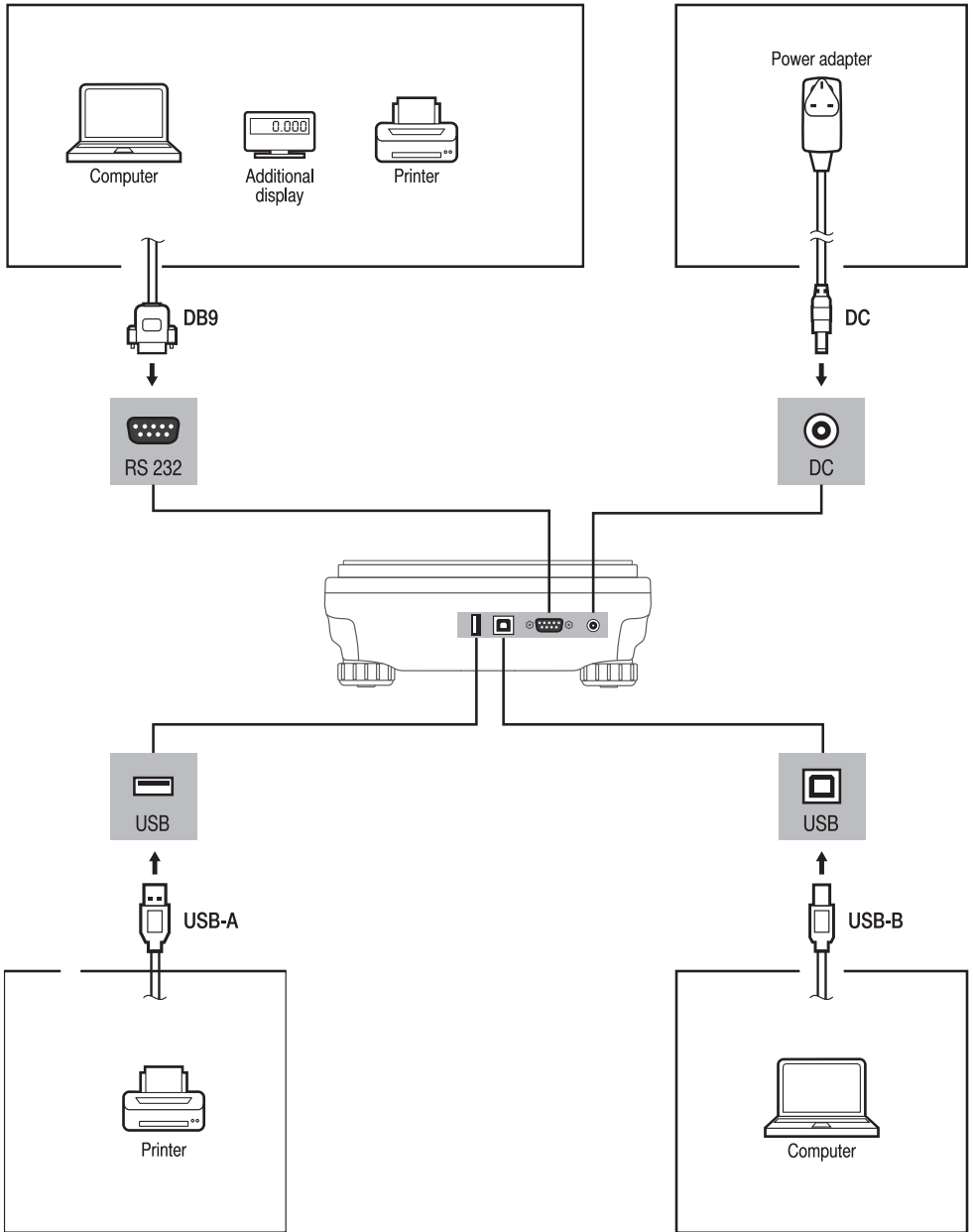


Using key select "9.2.Unin" parameter and press key.



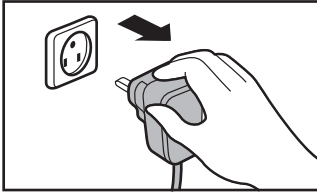
Using key select weighing unit and press key to confirm.

9. PERIPHERAL DEVICES CONNECTORS

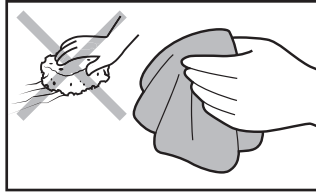


10. DEVICE CLEANING

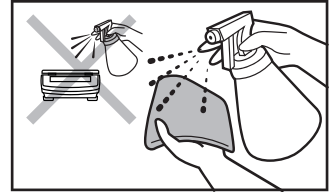
10.1. General Recommendations



Prior to cleaning it is necessary to disconnect the device from the mains. Remove the plug from the outlet, disconnect all cables



Use soft cloth made of either natural or synthetic fiber exclusively. Avoid using cloth made of stiff/hard fabric, this could cause scratches on the surface.



Apply the cleaner onto the cloth. Mind not to apply the cleaner directly onto the device.



Do not use aggressive cleaning agents (e.g. solvents, chlorine preparations, corrosive chemicals, bleach)



Do not use substances of sharp structure or intended for scrubbing



Make sure that dust nor liquid gets inside the weighing system.

11.2. Cleaning Instructions

GLASS PANES AND COMPONENTS can be cleaned using window cleaner.

WEIGHING PANS AND STAINLESS STEEL OR ALUMINUM COMPONENTS can be cleaned using a cloth slightly soaked in a solution of water and gentle cleanser (e.g. soap or dishwashing liquid)

OPERATION PANEL AND HOUSING can be cleaned using a cloth slightly soaked in a solution of water and gentle cleanser (e.g. soap or dishwashing liquid)

Dry sample leftovers can be removed using either a brush or handheld vacuum cleaner.

Clean components can be dried using a soft cloth or dust-free paper towel, with this the remaining moisture will be absorbed.

Install all the components only when they are completely dry.

PRECISION™

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