

# **BSM170/170B**

## **User's Manual**



Please note the important information below before reading this manual.

 **Warning**

Failure to comply with safety warnings and regulations can cause serious injury or death.

 **Caution**

Failure to comply with safety cautions and regulations can cause injury or property damage.

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Visit our website <http://www.inbody.com> to view and download further information about the functions of the BSM170/170B, the explanation of results output, and more. InBody Co., Ltd reserves the right to modify the appearance, specifications, and etc. of the BSM170/170B to improve the quality of the product, without prior notice for reasons of performance improvement.

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# BSM170/170B

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# I. Stadiometer Installation

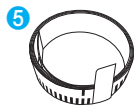
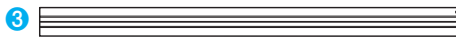
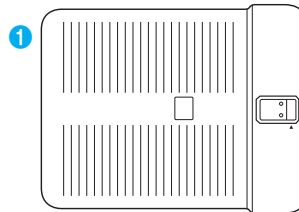
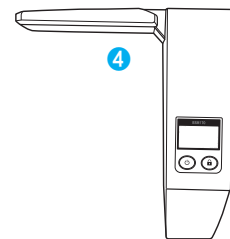
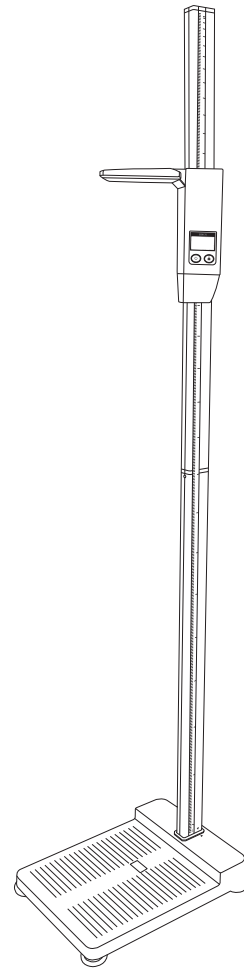
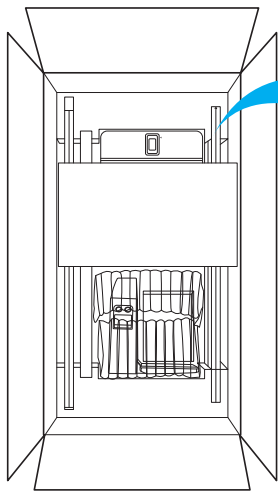
## A. Product Components

The BSM170/170B contains of the following components.

Make sure all of the following components are present.

\* Please inspect each component of the BSM170/170B for damage prior to installation.

- ❶ Footplate 1 EA
- ❷ Stand (upper) 1 EA
- ❸ Stand (lower) 1 EA
- ❹ Measurement unit 1 EA
- ❺ Measurement tape 1 EA
- ❻ Footplate mounting screws 4 EA
- ❼ Stand mounting screws 8 EA
- ❽ User's manual 1 EA
- ❾ AA batteries 4 EA
- ❿ Test Jig 1 EA



## B. Operating Environment

Please make sure that the environment is adequate for the BSM170/170B installation. This equipment is designed for indoor use. If installing outdoors, the following requirements must be fulfilled.

Temperatures range	10 ~ 40°C (50 ~ 104°F)
Relative humidity	30 ~ 75% RH
Atmospheric pressure	70 ~ 106kPa

### Warning

- Before installing BSM170/170B, check that the ceiling is at least 2.3 m high. The maximum height of this equipment is 2.19m. Keep a space of at least 3cm between the ceiling and the top of the BSM170/170B.

## C. Installation Instructions

1. After opening the BSM170/170B box, remove the packaging materials and take all product components out.

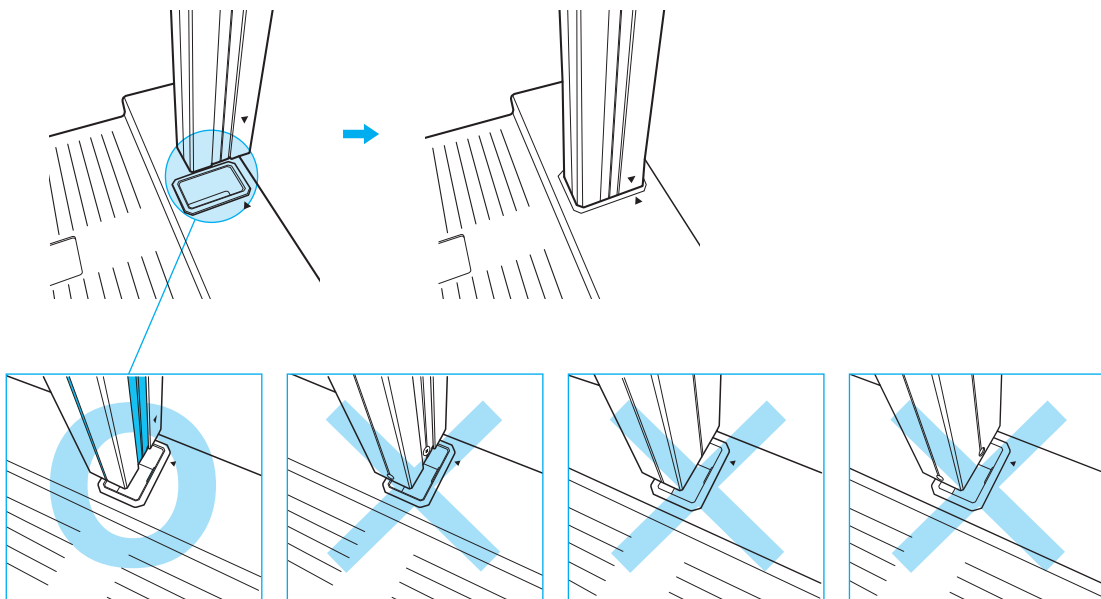
### Warning

- Keep the packaging materials provided for repacking the equipment in the future. Other wastes should be disposed of according to relevant laws and regulations.
- Install the BSM170/170B on a leveled, non-vibrating surface. Installing the equipment on an uneven surface may cause the examinee to fall down. Measurement results may also be inaccurate.
- Never clean the BSM170/170B with liquid spray or detergent directly. The equipment may corrode and/or malfunction if the liquid or detergent leaks inside. Additionally, BSM170/170B measurement tape may be damaged. When cleaning the BSM170/170B, gently wipe it with the cloth.

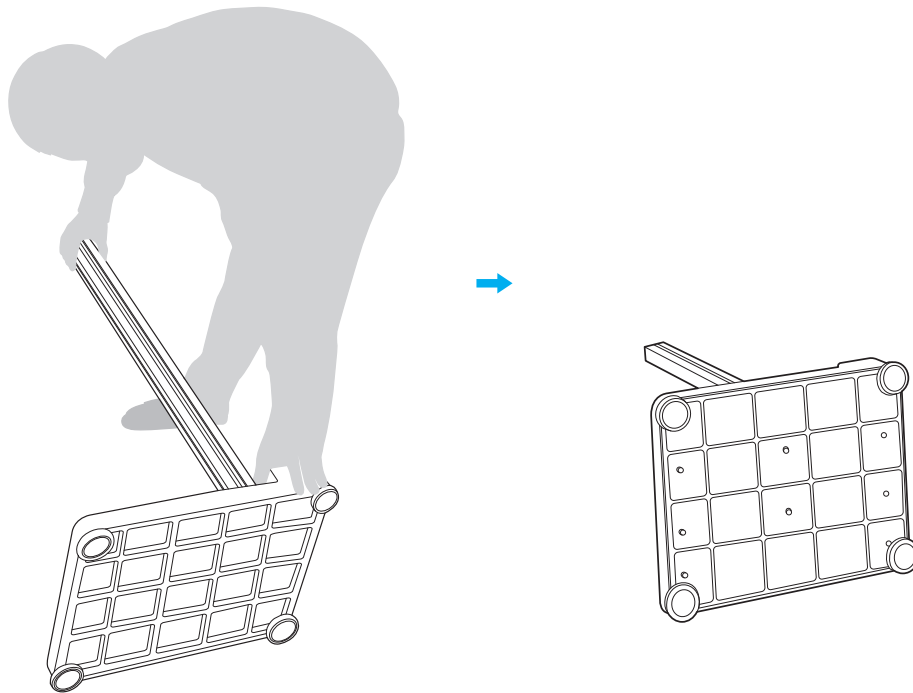
2. Insert the “Stand (lower)” into the footplate, ensuring that the arrow (▼) located on the bottom right of the “Stand (lower)” and the arrow (▲) located on the footplate face one another.

\* When inserting into the “Stand (lower)”, part without screw holes must face downward.

\* The “Stand (lower)” and the footplate are designed to be assembled together in only one particular direction. Forcing the stand to be inserted in other directions could damage the product.

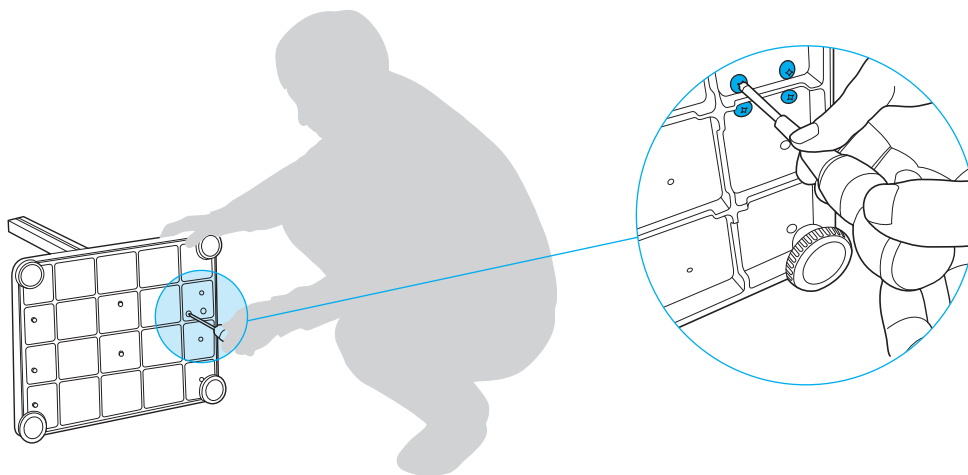


3. Hold the “Stand (lower)” in place to prevent it from sliding out of the insertion hole of the footplate, tilt the equipment sideways towards the floor.



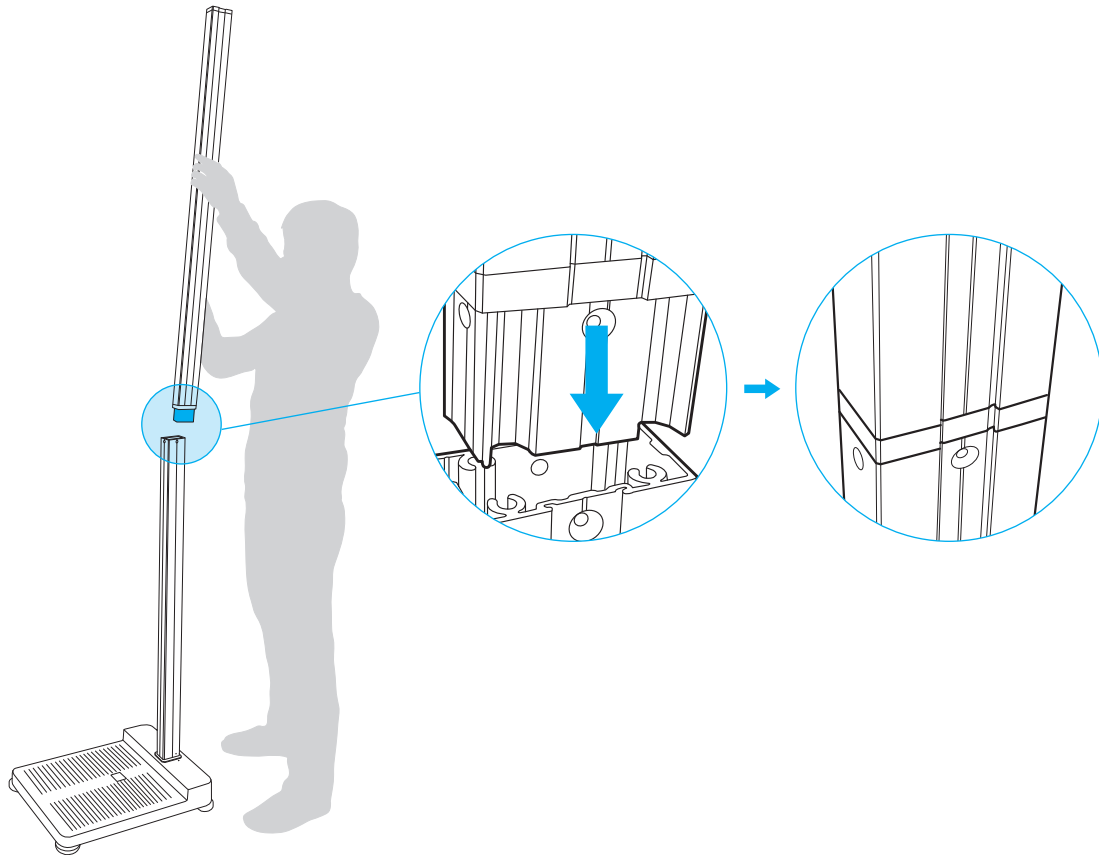
4. Screw each of the 4 footplate leveling screws into the holes located on the opposite side of the stand insertion hole of the footplate.

5. Tighten the Stand mounting screws by turning them clockwise with the Phillips screwdriver.



6. Once all four screws are fastened tightly, return the “Stand (lower)” and footplate to an upright position.

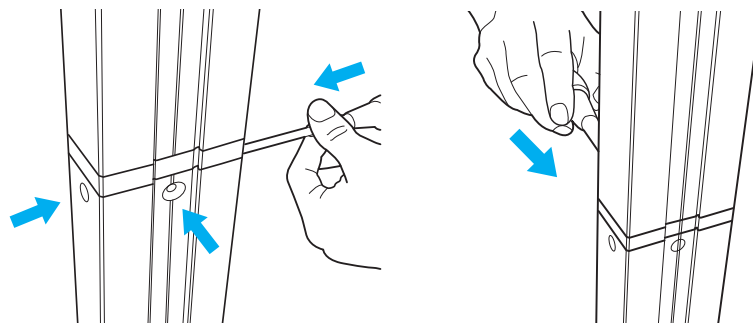
7. Insert the black end of “Stand (upper)” into the “Stand (lower)” as illustrated below.



**! Caution**

- Hold the “Stand (upper)” as vertically as possible so that it is not inserted in a slanting position.

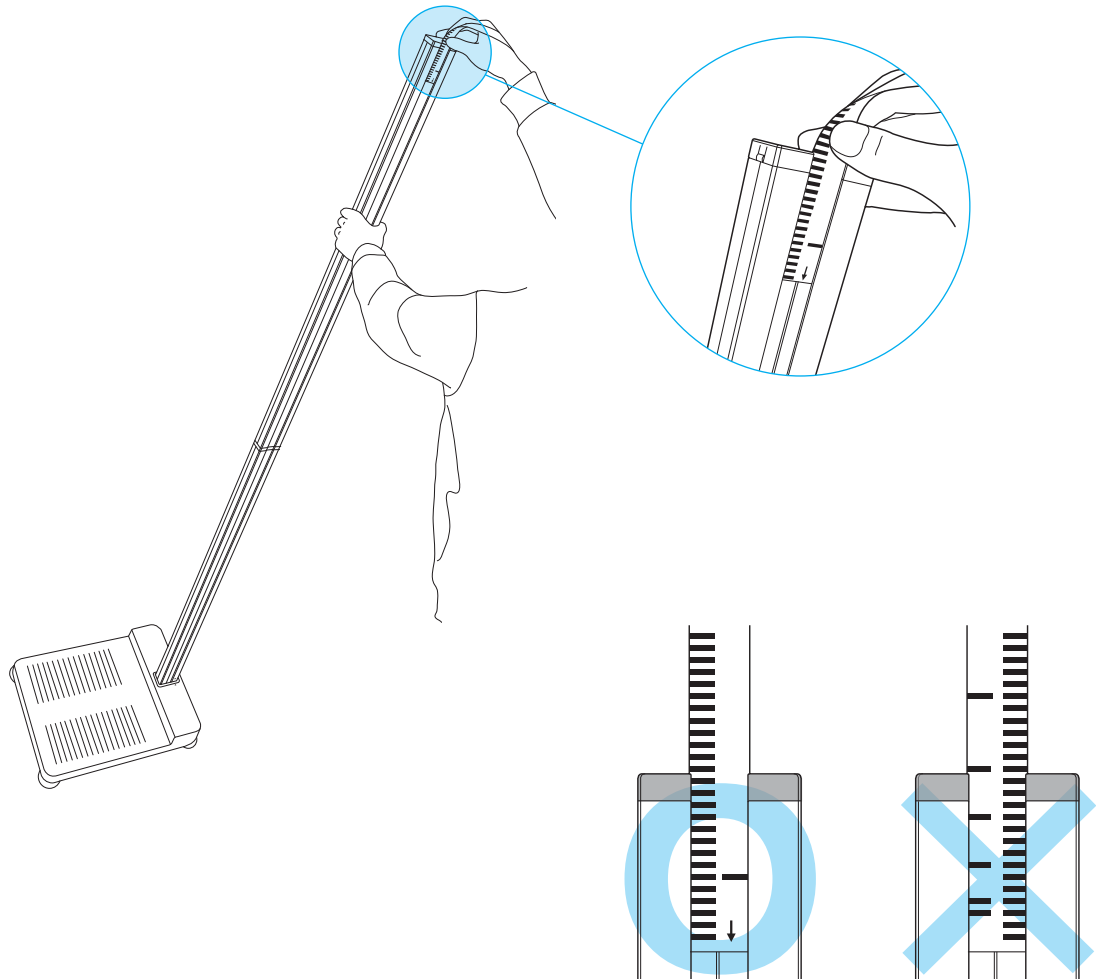
8. After inserting the “Stand (upper)” into “Stand (lower)”, fasten the two stands together using the mounting screws and Phillips screwdriver.



**! Caution**

- Avoid using excess force to fasten the mounting screws.

9. Insert the measuring tape into the “Stand (upper)” with the ‘↓’ facing down. Refer to the illustration below. After the measurement tape is completed inserted, remove the sticker attached to the end of the measurement tape to affix the tape to the stand.

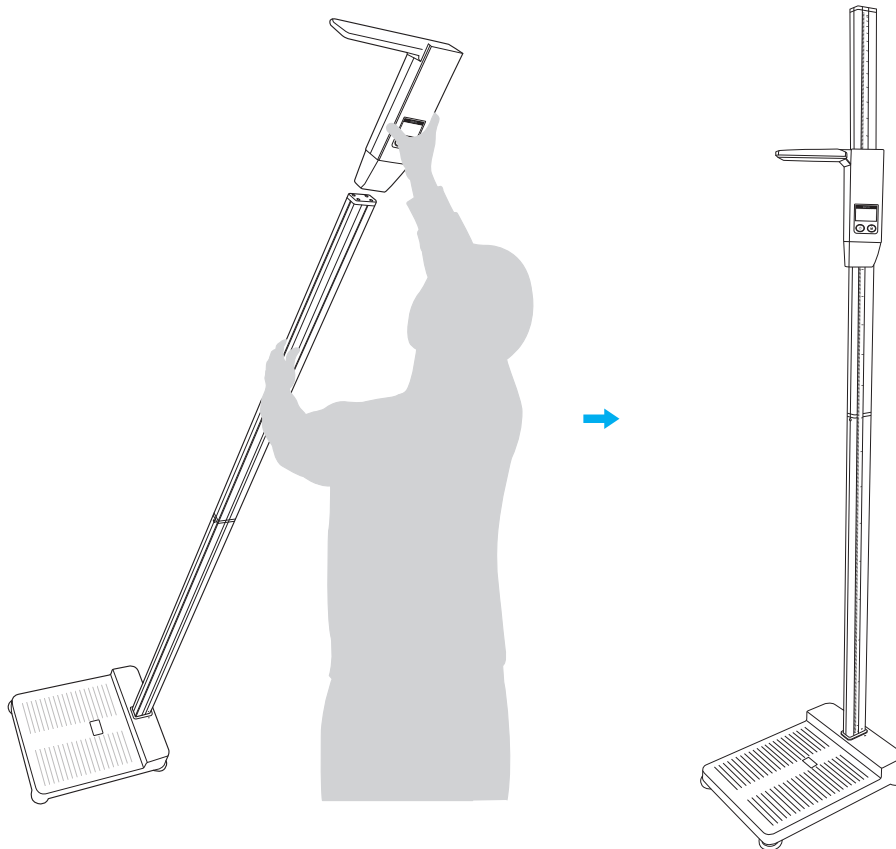


 **Caution**

- The measurement tape must be inserted with the arrow marked ‘↓’ facing down.
- Correct measurements cannot be taken if the measurement tape is inserted reversed.



10. Tilt the Stand to a comfortable position and insert the measuring unit onto the stand as illustrated below.



 **Caution**

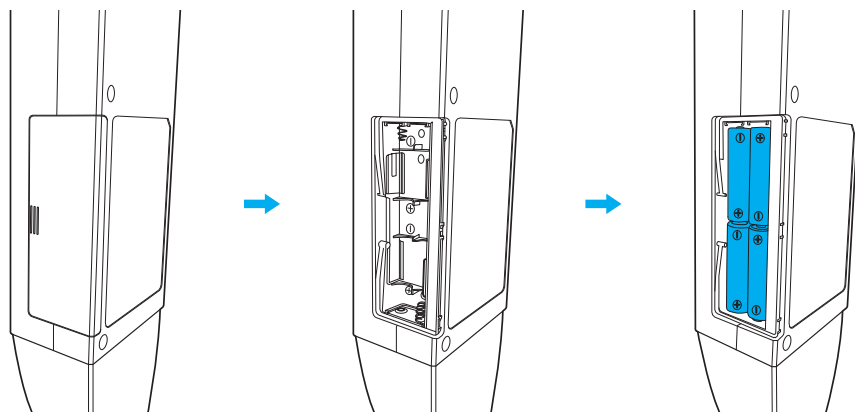
- The LCD on the measurement unit and the measurement tape must be visible on the same side.

11. The BSM170/170B uses batteries as its power source.

\* When the measurement standby time expires, the equipment automatically turns off.

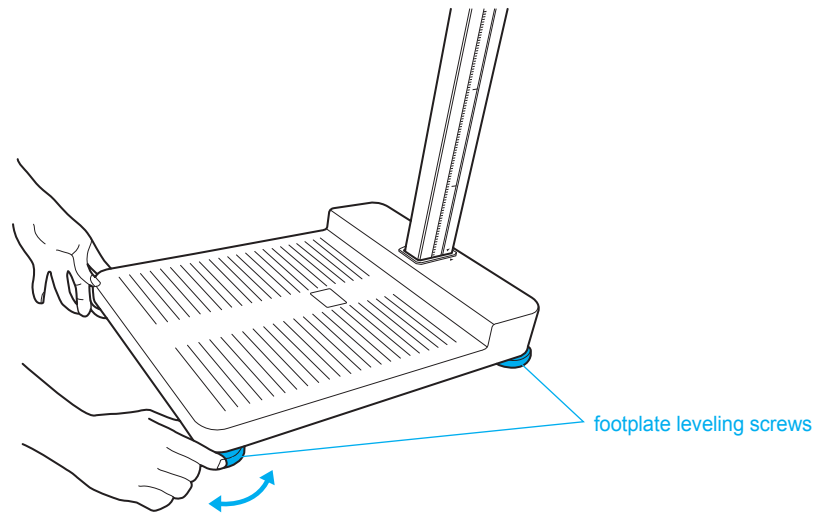
- 1 BSM170 standby time: 10 seconds.
- 2 BSM170B standby time: 2 minutes if it is not connected to the InBody, 10 seconds if it is connected to the InBody.

- 1) Open the battery cover located on the right side of the LCD screen.
- 2) Insert 4 AA batteries.
- 3) Cover the battery socket with the battery socket lid.



12. After placing the BSM170/170B on a flat surface, the footplate is not level, use the footplate adjustment screws to adjust until level.

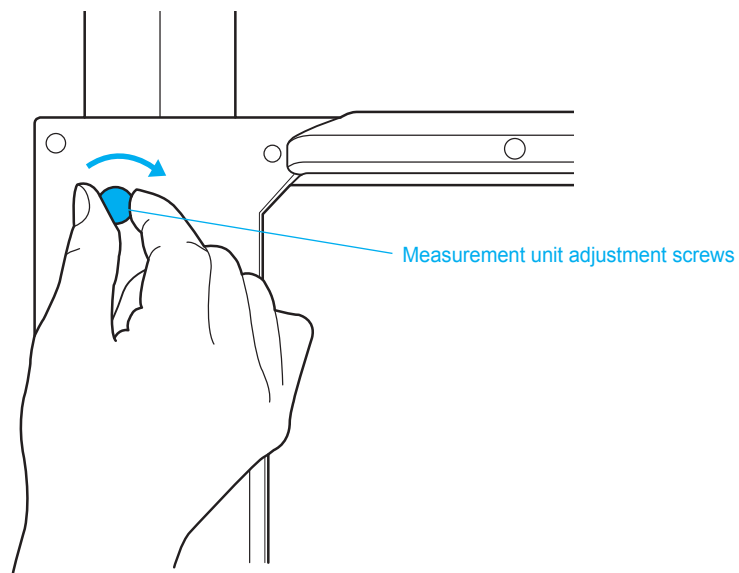
\* Leveling the equipment is necessary for accurate height measurements.



13. When taking measurements with the BSM170/170B, the operator must move the measurement unit up and down manually. By default, the adjustment screw is tight to keep the measurement unit from sliding down too freely. If the screw is too tight, adjust the screw to the preferred tightness.

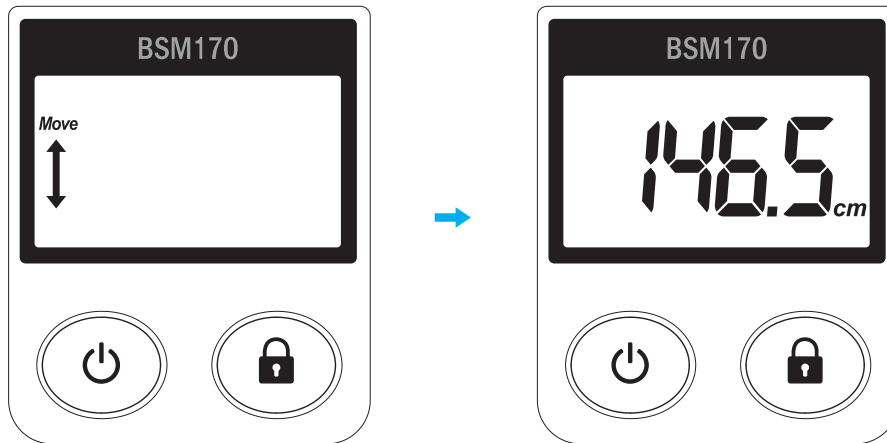
\* By default, the adjustment screw is tight to keep the measurement unit from sliding down too freely. If the screw is too tight, adjust the screw to the preferred tightness.

\* If the screw is tightened too tight, the measurement unit may not move at all.





14. Turns on the BSM170/170B.

15. Move the measurement unit up or down until the 'Move' text disappears. The equipment will enter the measurement standby mode and the display will change as shown below.




## D. Stadiometer Settings




### 1. Required Settings

1. After turning on the BSM170/170B, press and hold the  button and the  button simultaneously for at least 3 seconds to enter the Setup menu.

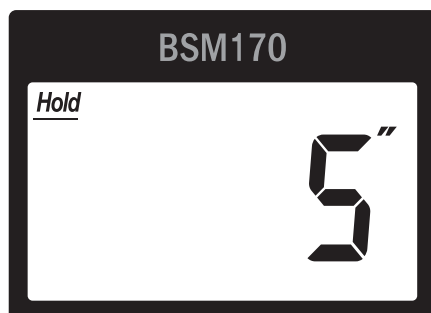


2. In the Setup menu, set the measurement value hold time, beep, screen brightness, units, and offset value.

1) Measurement value hold time: When the  button is pressed after a height measurement is recorded, the value displayed will stay locked on the LCD screen for this amount of time, even if the measurement unit is moved.

- a. Use the  button to move to 'Hold' and then press the  button to select.
- b. Use the  button to set a hold time for the locked height value.

\* The hold time can be set to off or on for anywhere between 1 to 10 seconds.



Measurement value hold time setup

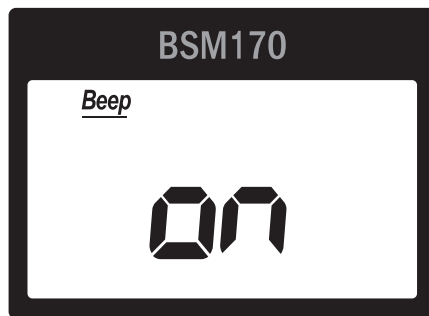
- c. Save changes by pressing the  button.

2) Beep: Enable or disable the beep alert.

a. Use the  button to move to 'Beep' and then press the  button.

b. Use the  button to turn on or off the beep alert.

\* Beep can be set to on or off.



Beep setup

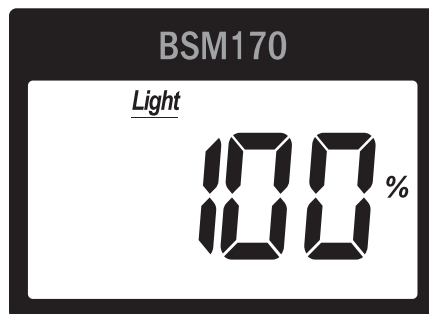
c. Save changes by pressing the  button.

3) Screen brightness: Brightness of the LCD screen.

a. Use the  button to move to 'Light' and then press the  button.

b. Use the  button to set the screen brightness that is appropriate for the test environment.

\* Screen brightness can be set to 100%, 50%, or off.



Screen brightness setup

c. Save changes by pressing the  button.