E.U.A. e Canadá

Aviso da Comissão Federal de Comunicações (FCC) e do ICES Canadense

Este equipamento foi testado e comprovado de que está de acordo com as restrições impostas para o dispositivo digital Classe B, conforme a Parte 15 dos Regulamentos da Comissão Federal de Comunicações (FCC), dos E.U.A., e do ICES-003, do Canadá. Estas restrições são determinadas para prover uma proteção razoável contra interferências prejudiciais em equipamentos residenciais. Este aparelho produz, utiliza e pode emitir energia de freqüência de rádio e, se não for instalado e usado de acordo com as instruções, poderá causar interferências à comunicação de rádio. Contudo, não há garantia de que a interferência não ocorra em equipamentos residenciais. Se este equipamento realmente causar interferências na recepção de rádio ou televisão, o que pode ser comprovado desligando e ligando o equipamento, o usuário poderá tentar corrigir através das medidas seguintes:

• Reorientar ou recolocar a antena receptora.
• Aumentar a distância de separação entre o equipamento e o receptor.
• Conectar o equipamento a uma tomada de um circuito diferente daquele que o receptor está conectado.
• Consultar o revendedor ou solicitar ajuda a um técnico especializado de rádio ou televisão.

Modificações

A FCC solicita que o usuário esteja ciente de que quaisquer alterações ou modificações feitas neste dispositivo, que não sejam expressamente aprovadas pela Tanita Corporation, podem invalidar o direito do usuário operar o equipamento.

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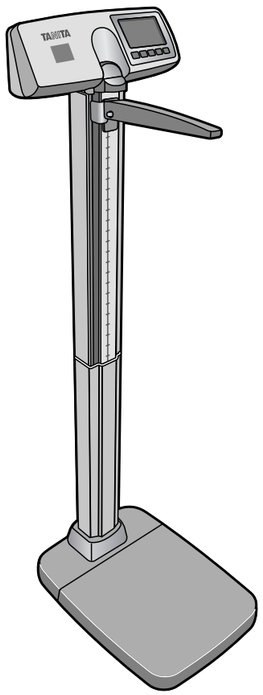
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WB3007601(1)

ELECTRONIC PHYSICIAN SCALE
WB-3000

INSTRUCTION MANUAL



Please keep this manual in a safe place, and make sure it is readily available whenever necessary. Please use this product only after carefully reading this manual and fully understanding its contents.

Eng

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2. Safety Notes

Caution Symbols

For optimum performance and safety, please familiarize yourself with the Caution Symbols below. These symbols are designed to alert the user to potential hazards when using this equipment. Ignoring these Caution Symbols may result in serious injury, or damage to the produ ct. Please be sure to review before proceeding with the INSTRUCTION MANUAL.

⚠ WARNING **This symbol indicates the possibility of serious injury if the product is mishandled or instructions are ignored.**

⚠ CAUTION **This symbol indicates the possibility of physical injury or equipment damage if instructions are ignored.**

⚠ This symbol indicates general precautions that should be taken when using this product.

⚠ WARNING

- Inserting and Removing the AC adapter to reduce the risk of electric shock or product damage, never insert or remove the AC adapter with wet hands.
- Do not under any circumstances dismantle or alter the device, as this could result in electric shock or injury as well as advers ely affecting the precision of measurement.
- To prevent fire hazard use only a correctly wired (120V AC) outlet, and do not use a multiple outlet extension cable.

⚠ CAUTION

- Please make sure you place the scale on a level and stable surface. If the equipment is used when the scale is unstable, because not all feet are on the surface, there may be a risk of injury or inaccurate measurement.
- Never jump on the scale, there may be a risk of injury and malfunction of the equipment.
- The equipment must be used with the included AC adapter only.
- Do not insert or remove the AC plug by the cable.
- Do not place a finger into any gap or any hole of the equipment. You may be injured.
- Please use caution when adjusting the height rod to prevent injury.
- Please return the height rod to the storage position after completion of measurement.
- Please do not touch or lean on the height rod or the display during weighing as this will reduce accuracy.

⚠ Maintenance

This is a precision manufactured and accurately calibrated product. Please observe the following instructions.

- If the equipment is moved to a place with a temperature difference of 18˚F/10˚C or more, leave if for at least two (2) hours before use.
- Avoid subjecting the equipment to excessive shocks or vibrations.
- Never disassemble or adjust the equipment, as this may cause malfunctions.
- When not in use for an extended time, unplug the AC adapter from the wall socket.
- Do not wipe the equipment with corrosive chemicals (benzene, acetone, etc.). Please use a neutral detergent to clean the equipment.
- Do not use cellular phones or microwave therapy equipment near this equipment.

It may not measure correctly due to equipment malfunction.

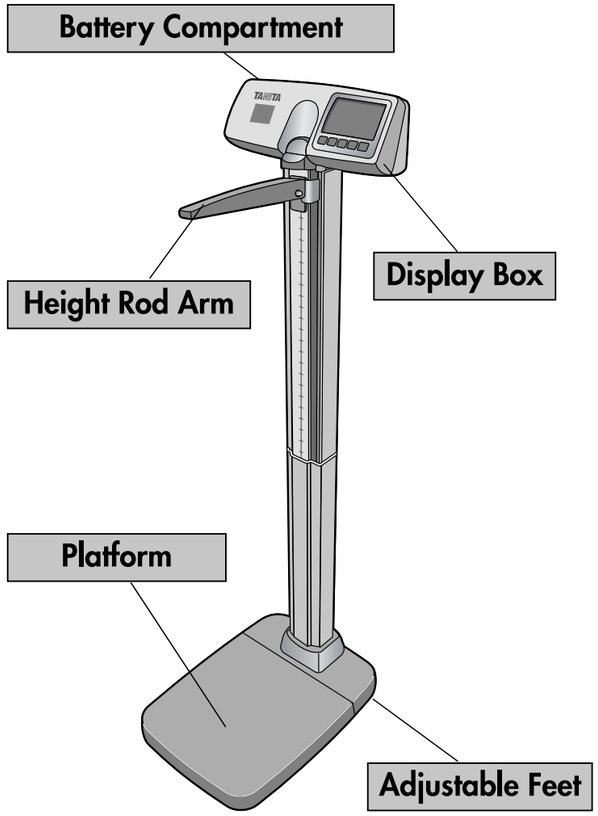
- When disposing of this equipment, please do so in accordance with the prevailing regulations in your country, state and city.
- If an unauthorized person attempts to disassemble or repair any part of the equipment, the warranty will become invalid. When the unit malfunctions, please consult your nearest Tanita sales office or agent.

Eng

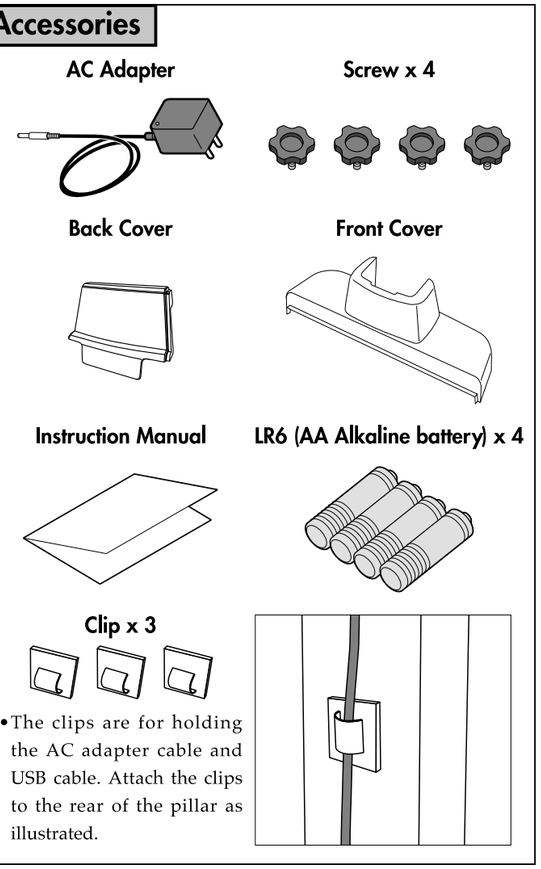
3. Based on NIH/WHO BMI Guidelines

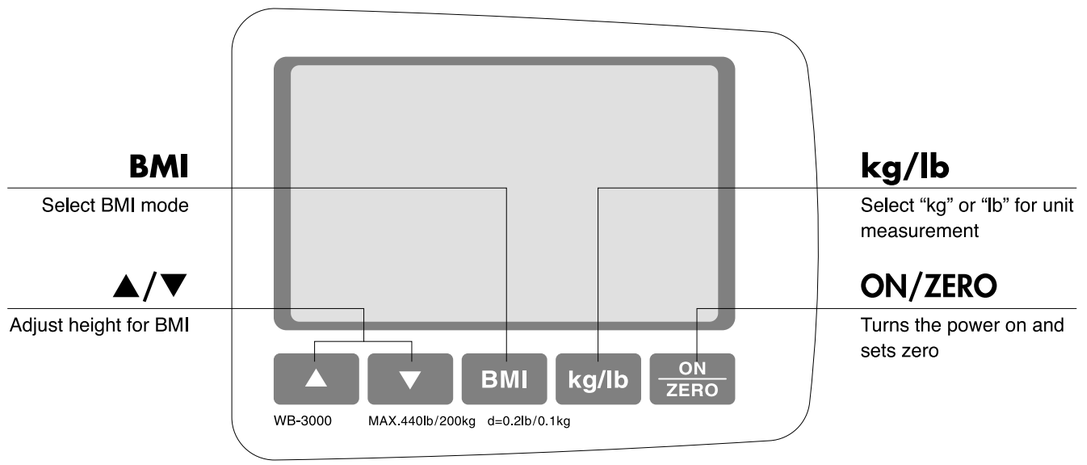
Under Weight		BMI ＜ 18.5
Normal Range		18.5 ≦ BMI ＜ 25
Pre obese		25 ≦ BMI ＜ 30
Obese	CLASS Ⅰ	30 ≦ BMI ＜ 35
Obese	CLASS Ⅱ	35 ≦ BMI ＜ 40
Obese	CLASS Ⅲ	BMI ≧ 40

4. Part Names & Accessories



Accessories





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⚠ CAUTION

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- Never jump on the scale, there may be a risk of injury and malfunction of the equipment.
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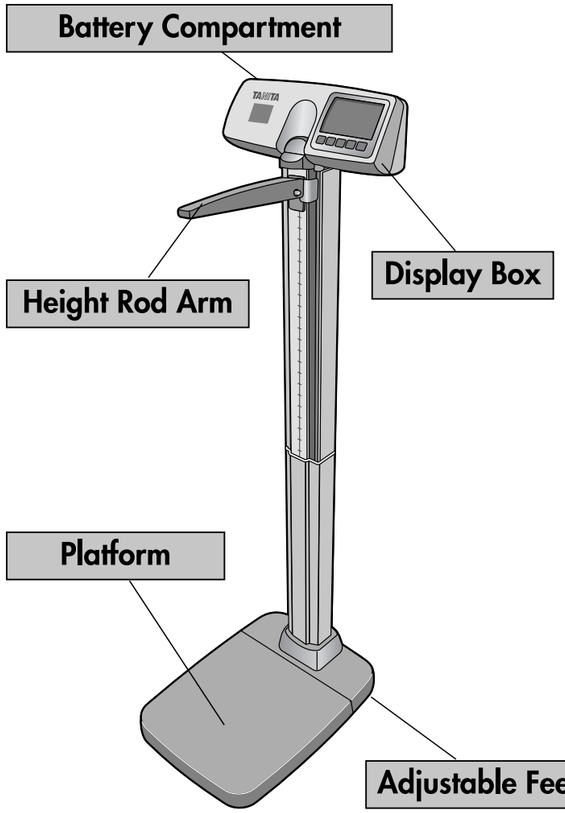
It may not measure correctly due to equipment malfunction.

- When disposing of this equipment, please do so in accordance with the prevailing regulations in your country, state and city.
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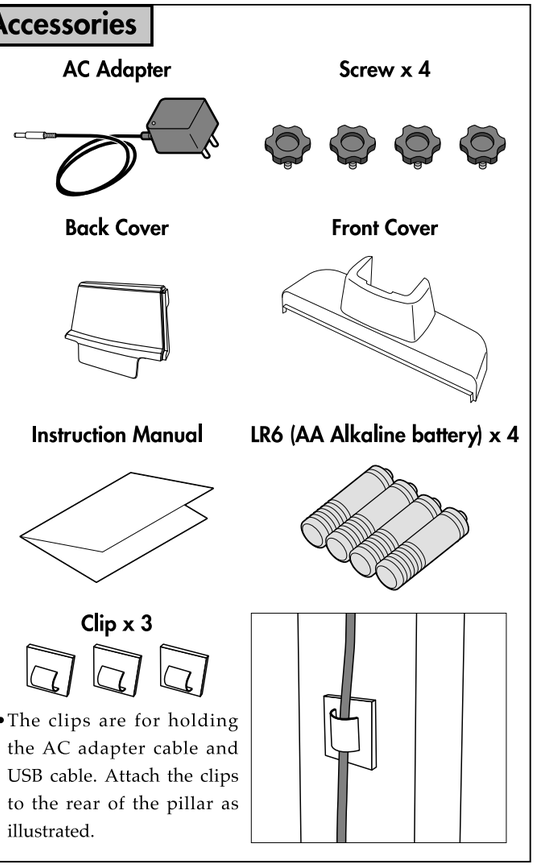
3. Based on NIH/WHO BMI Guidelines

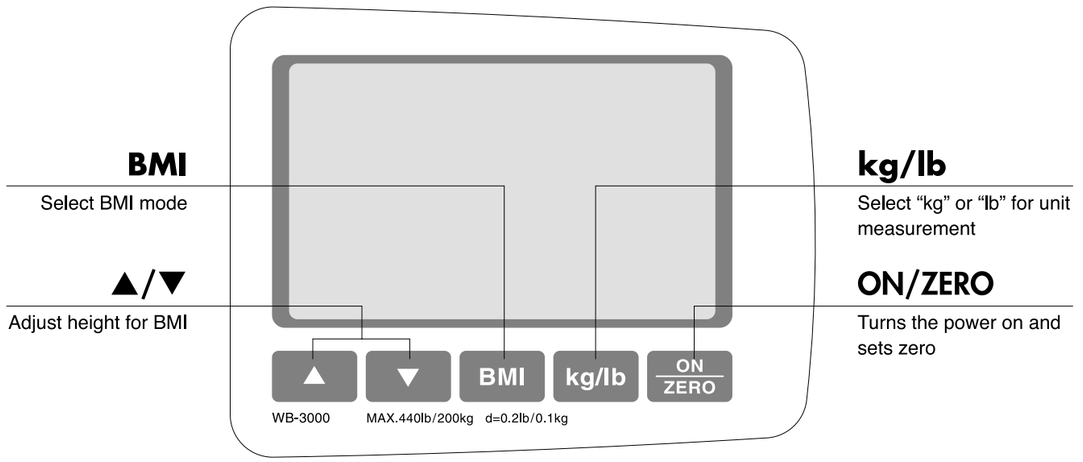
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Normal Range		18.5 ≦ BMI ＜ 25
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4. Part Names & Accessories



Accessories

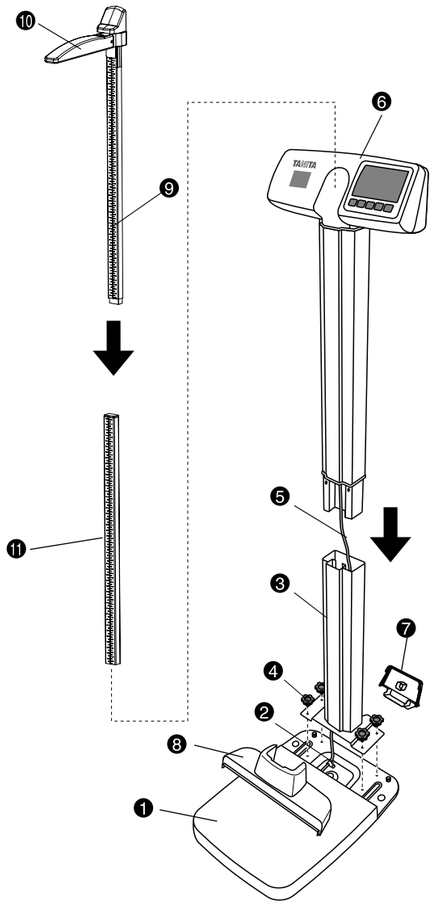




5. Assembly Instructions

1. List of Components

❶ Base (fully assembled and pre-wired to display assembly)
❷ Cable (Base side)
❸ Lower Pillar Assembly
❹ Screw
❺ Cable (Top Head Display Assembly Side)
❻ Top Head Display Assembly (fully assembled and pre-wired to base)
❼ Back Cover
❽ Front Cover
❾ Top Height Rod Assembly (fully assembled with pivoting height measuring lever)
❿ Height Rod Arm
⓫ Lower Height Rod Assembly

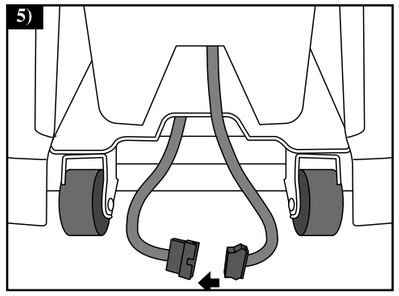


2. Assembly

1) Carefully remove all components from the box.
2) Place all items on the floor side by side.
3) Install the Lower Pillar Assembly into the Base using the four (4) Screws while carefully avoiding pinching the cable.
4) Assemble the Top Head Display into the Lower Pillar assembly while carefully inserting the cable into lower pillar assembly and extending it the full length of the lower pillar.
5) Connect the Cable from the bottom of the lower pillar assembly to the cable on the base.
6) Attach the Back cover onto the back side of the bottom of lower pillar assembly.
7) Attach the Front cover to the front side of the lower pillar assembly while holding the Back cover securely in place.
8) Assemble the top height rod assembly to the lower height rod assembly correctly.
9) Slide the assembled height rod into the height rod opening on the pillar assembly. Push all the way down.

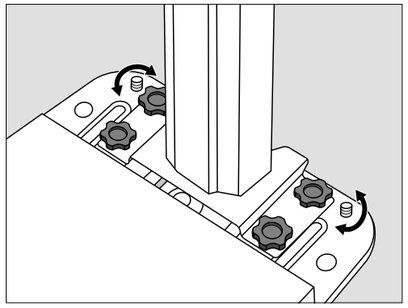
⚠CAUTION • Be careful not to catch your fingers during assembly.

5)



6. Set up

Use the scale in a firm, flat and stable location.



To obtain the highest level of accuracy, please make sure that all four (4) feet are touching on the floor evenly.
For further accuracy and security, please position the two (2) adjustable supporting feet on the base (found under the front cover) until they just make contact with the floor (do not overextend)

- Do not position it anywhere that is subject to direct sunlight, near heating equipment, or directly in the path of an air conditioner outlet.
- Do not use it anywhere that is subject significant temperature change.
- Do not position it anywhere that it either damp or subject to high humidity.

⚠CAUTION • Put the weighing platform on a flat, level surface.

7. Operation by AC adapter

AC adapter is much preferable when the scale will be used continuously.

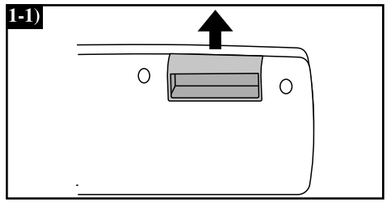
1) Insert the AC adapter jack into the AC adapter inlet on the back side of display.
2) Plug the AC adapter into the power outlet.

⚠WARNING • In order to reduce the risk of electric shock, never insert or remove the power code with wet hands.

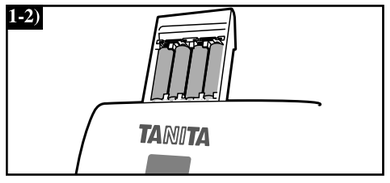
⚠CAUTION • This equipment must be used with the included AC adapter only.

8. Operation by batteries

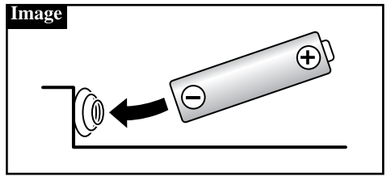
1-1)



1-2)



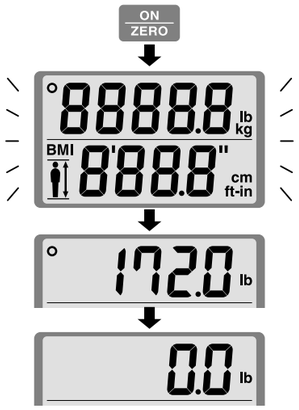
Image



1) When the batteries start to run low, “Lo” appears on the display panel as a warning.
2) Pull up the battery case which located on top of display. All batteries should be immediately replaced with new ones at the same time.
   - Do not use a combination of alkaline and manganese batteries, as such an arrangement may result in equipment failure.
   - Rechargeable batteries are NOT recommended use.
3) Push down the battery case completely.

* Insert new batteries such that the negative terminals of the batteries are pushed up against the coils within the battery housing.

9. Operation



1. Standard Weighing Procedures

1) **Turn on the power by pressing the ON ZERO key.**

2) **After all the segments flash, [0.0lb/0.0kg] is displayed.**

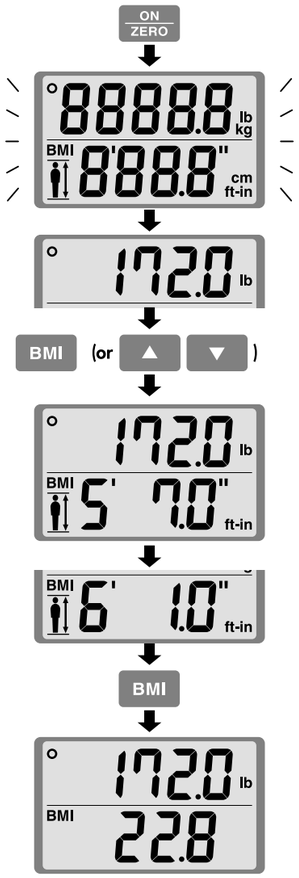


3) **The person to be weighed should still in the middle of the platform.**

4) **The weight will be locked-in and displayed on the display. "○ (Hold)" sign will appear in the upper left corner of the display.**
When the scale is connected to an external device, weight data will be exported at this time.

5) **The scale will automatically shut off in 30 seconds.**

Note: • Do not press the ON key while standing on the scale, as accurate measurement will not be possible.



2. BMI Weighing

1) **Turn on the power by pressing the ON ZERO key.**

2) **After all the segments flash, [0.0lb/0.0kg] is displayed.**

3) **The person to be weighed should still in the middle of the platform.**

4) **The weight will be locked-in and displayed on the display. "○ (Hold)" sign will appear in the upper left corner of the display.**

5) **Press the BMI key (or ▲ ▼). The default height [5ft7.0in/170cm] will be displayed.**

6) **Set the height with the ▲ ▼ key.**

7) **Once the height and weight have been established, press the BMI key.**
The weight and BMI calculation will then be displayed.
When the scale is connecting to an external device, weight, height and BMI data will be exported at this time.

8) **The scale will automatically shut off in 30 seconds.**
The setting of height for BMI is can be accomplished in any one of the following means by pressing the BMI key (or ▲ ▼).
- Before stepping on the scale.
- After pressing the ON ZERO key.
- After weight measurement while the weight result remains on the display.

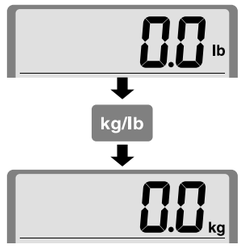
3. Step on Function

The scale will turn on automatically when the user steps onto the platform.

Note:
- If the weight is less than 22lb/10kg, the "Step-On" function will not work.
- If person less than 22lb/10kg, press the ON ZERO key manually to turn on the scale.
- If an item is placed on the scale while it is powered off, accurate measurement will not be possible and the Step on Function may not operate properly.

4. Changing Measurement Units

This function is used to change the measurement units on the display.



e.g. When change the unit "kg" to "lb".

Press the kg/lb key.

The measure shifts from "kg" to "lb" and the measurement units change.

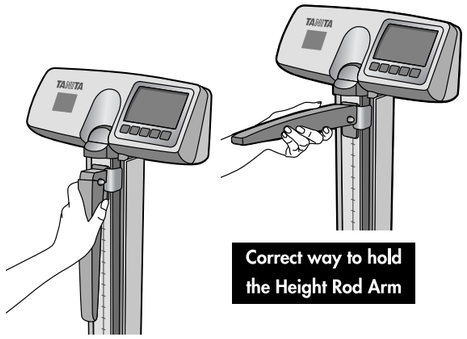
10. Measuring height procedure

The user should step on the platform without wearing shoes for accurate measurement.
Always have someone assist the user for accurate measurement.

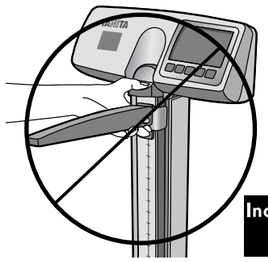
1) Adjust the Height Rod Arm position before the user steps on the platform. Place hand on the Height Rod Arm.

If the subject is taller than 48" / 120 cm, pull the Height Rod Sliding Block and Height Rod Arm at the same time upward so that the arm is positioned higher than the subject's head.

If the subject is shorter than 48" / 120 cm, move the Height Rod Arm down.



Correct way to hold the Height Rod Arm



Incorrect way to hold the Height Rod Arm

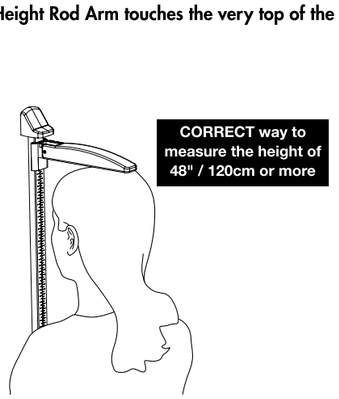
To avoid danger of breaking or coming loose, you must hold the height rod arm securely.

2) Gently lower the Height Rod Arm until the Height Rod Arm touches the very top of the user's head.

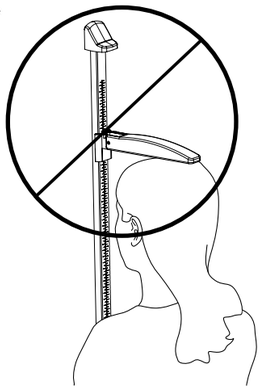
3) Read the measurement.

If the subject is taller than 48" / 120 cm, read the number just above the top of the Upper Pillar Column (see example #1).

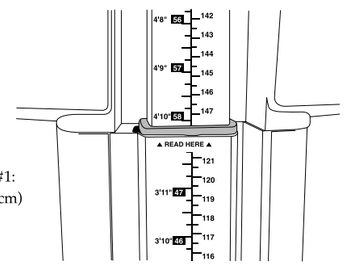
If the subject is shorter than 48" / 120cm, read the number below the Height Rod Arm (see example #2).



CORRECT way to measure the height of 48" / 120cm or more

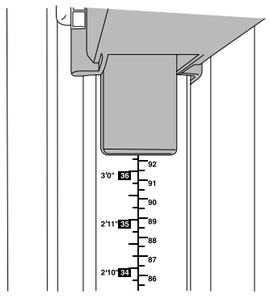


INCORRECT way to measure the height of 48" / 120cm or more



Example #1:
58"(147.5 cm)

Reading the height measurement of 48" / 120cm or MORE



Example #2:
36.25" (92 cm)

Reading the height measurement of 48" / 120cm or LESS

11. Output data format

This section covers the exporting of data from the scale to an external device (e.g. PC) using a RS-232C and USB compliant signal.

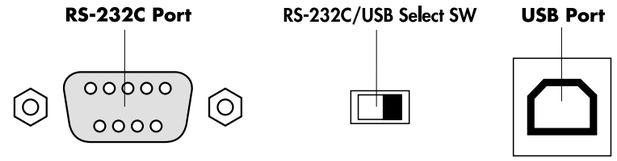
- RS-232C and USB interface are for data OUTPUT ONLY!
- This scale is not capable of receiving instructions from an external device.

Specifications

Communications standard	EIA RS-232C compatible	USB
Communications method	Asynchronous transaction	
Signal speed	9600 baud	
Data bit length	8 bits	
Parity	None	
Stop bit	1 bit	
Terminator	CR+LF	

Note:

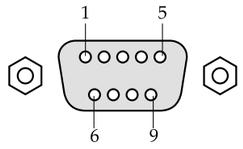
- An RS-232C connector (D sub 9-pin female) and USB connector (B-type 4-pin female) are located on the back of the display unit.
- Please provide your own cables as necessary as none are included.
  RS-232C :Straight D sub 9-pin (male) – D sub 9-pin (female)
  USB :A-type 4-pin (male) – B-type 4-pin (male)
- Select Switch : Please select which interface you would like to use



⚠Caution If you want to use the USB output, you must install the necessary driver onto your PC, available to download from ***http://www.tanita.com***.

Signal Line Name and Connection Method

Terminal no.	Signal name
1	
2	TXD
3	RXD
4	
5	GND
6	
7	
8	
9	



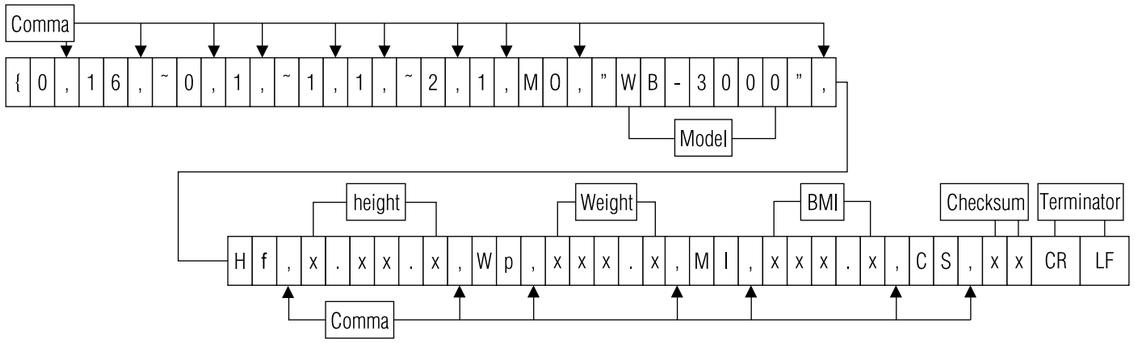
Output data

Name of item	Header		Output data (ASCII code)		Pattern	
	kg mode	lb mode			BMI mode	Weight mode
Control data	{0		Fix to 16	2 Bytes fixed	✓	✓
Control data	~0		Fix to 1	1 Byte fixed	✓	✓
Control data	~1		Fix to 1	1 Byte fixed	✓	—
Control data	~2		Fix to 1	1 Byte fixed	✓	—
Model	MO		"WB-3000"	9 Byte fixed	✓	✓
Height	Hm	Hf	xx.x – x.xx.x	4 – 6 bytes	✓	—
Weight	Wk	Wp	xxx.x	3 – 5 bytes	✓	✓
BMI	MI		xxx.x	3 – 5 bytes	✓	—
Checksum	CS		xx	2 Bytes fixed	✓	✓

Note:

- The data are divided with commas (,) for each data.
- The terminator (end of the data) is CR (ASCII code 0DH), LF (ASCII code 0AH).
- The control data for the items 1 – 4 are for expansion. They are not used presently so the receiving side can ignore them.
- When the measurement unit is select the "lb",all the hight data is converted into “ft-in” and it is output.
- Because of its specifications, the scale will output an irrelevant signal approximately 0.1 second after data output. Make sure you ignore this signal and do not import it.

[Output example (in the case to lb unit)]



12. Specifications

Model			WB-3000	
Weight Measurement	Measurement System		Strain Gauge Load Cell	
	Maximum Capacity / Minimum Graduation		440 lb / 0.2lb	200kg / 0.1kg
	Range of Weight	Standard	0 - 440lb	0 - 200kg
		Step on	22 - 440lb	10 - 200kg
Height Measurement	Measurement System		Mechanical Height Rod	
	Range of Height		2ft 1in – 7ft	64cm – 214cm
Input Items	Height		2ft – 8ft 2in 0.5in increment	61cm- 250cm 1cm increments
Output Items	Display	Weight	440 lb / 0.2lb	200kg / 0.1kg
		Height	2ft – 8ft 2in 0.5in increment	61cm- 250cm 1cm increments
		BMI	0.1 increments	
Size	Overall		20.8 x 15.0 x 54.4 in	528 x 380 x 1381 mm
	Platform		15.0 x 15.0 x 2.0 in	380 x 380 x 50 mm
Display			Upper 5Digits and Lower 4Digits LCD Height of numerals 1in / 24mm	
Output Data Interface			RS-232C (D sub 9-pin Male connector) USB (B-type)	
Power Source			AC adapter (included) Center Minus	
Power Consumption			0.3 W max.	
Temperature Range of usage			32°F - 95°F	0°C - 35°C
Weight of Equipment			25.3lb (without batteries)	11.5kg (without batteries)
Rated Power			DC 6V 200mA (LR6 - AA Alkaline Battery x 4 included)	
Battery Life			Approximately 100hours of continuous use when using LR6 (AA Alkaline battery)	

13. Troubleshooting

If you are concerned that the scale may not be functioning correctly, please check the following point before requesting repairs.

Problem	Check Points
Nothing is displayed when ON/ZERO key is pressed.	• Check the connection of the AC adapter jack to the DC jack, and the connection of the AC adapter plug to the wall outlet. • The batteries may be weak. Try an AC adapter or new LR6 (AA) batteries. • Check the terminals of the batteries for contamination
“Lo” is displayed.	The batteries are running out. Please replace them immediately or use the AC adapter.
Measurement is not accurate.	• Check that all feet of scale are stable and on a hard flat surface, carpeting depth should be kept to a minimum. • After having stepped down from the scale and pressed the ON key, perform the measurement again. • Accurate measurement may be impossible if the product is used where there is excessive vibration. • Try using the product in a different place.
The weight does not stabilize	• Are you moving during measurement? • Is the measured weight within the range of weight measurement? • Are you touching the height rod arm, switch, or another part during measurement?
“OL” is displayed	• The range of weight (440lb/200kg) is exceeded.
“-OL” is displayed	• Was anything placed on the scale before measurement?
“Error” is displayed	• Check whether the cable between the platform and display is disconnected, cut, or pinched.