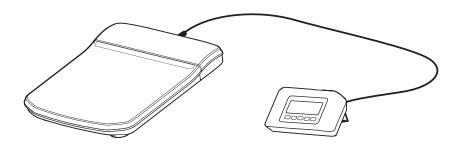


INSTRUCTION MANUAL ELECTRONIC SCALE WB-800AS plus





<Usage Conditions>

Temperature Range for Use	: 41°F – 95°F / 5°C – 35°C
Relative Humidity	: 30% – 80% (without condensation)

<Storage Conditions>

Temperature Range of Environment : 14°F – 122°F / -10°C – 50°C Range of Relative Humidity : 10% – 90% (without condensation) To avoid malfunctions, avoid storing the equipment where there is direct sunlight, significant temperature changes, the risk of dampness, a large amount of dust, in the vicinity of fires, or where there is the risk of receiving vibrations or shocks.



Please read this Instruction Manual carefully and keep it handy for future reference.

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2. Safety Notes

The following outlines precautionary measures to be taken to avoid injury to the users of this device and others, and to prevent damage to property. Please familiarize yourself with the contents to ensure the safe operation of this equipment.

Warning	Ignoring instructions highlighted with this mark could result in death or severe injury.
A Caution	Ignoring instructions highlighted with this mark could result in injury or damage to property.
\otimes	This mark indicates actions that are prohibited.
0	This mark indicates instructions that must always be adhered to.

Marning

Prohibited Keep this equipment away from flammable gas and oxygen rich environment. No modification of this equipment is allowed. There is a risk of electrocution or injury. Nor can precise analysis be guaranteed. Do not use a multi-plug adapter.		Do not handle the plug with a wet hand. Such action may result in electric shock, fire, or leakage.	
There is a risk of electrocution or injury. Nor can precise analysis be guaranteed.		Keep this equipment away from flammable gas and oxygen rich environment.	
	Prohibited		
Doing so may result in fire.		Do not use a multi-plug adapter. Doing so may result in fire.	

Use only a correctly wired outlet.

Only genuine cables and equipments are allowed.

ACaution

	Keep away from water.				
	Do not jump on the equipment.				
	Do not insert fingers into gaps and holes.				
	Do not apply force to the display.				
	The screen panel may break and cause injury.				
Prohibited	Do not hang heavy objects on a wall-mounted display.				
	Do not pull on a wall-mounted display.				
	When the display stand is in the open position, do not lean on or step on the display.				
	Assist persons with disabilities.				
	Another person should assist persons with disabilities who may not be able to take a measurement alone.				
	Be sure clean the scale platform with appropriate disinfectant after each use.				
	Stand clear of the subject during measurement to ensure accuracy.				
	Continually monitor both the subject and the equipment for anomalies.				
	If an anomaly in the subject or equipment is discovered, take appropriate action, such as stopping the equipment, while ensuring the safety of the subject.				
	Be sure to use the included AC adapter.				
Always	Unplug the AC cable from the equipment when moving it.				
	When not in use for a long time, unplug the AC Adapter from the wall socket.				
	Interpretation of analysis results (e.g. evaluation of measurements and formulation of exercise				
	programes based on results) must be performed by a professional.				

For Accurate Measurements



Avoid measuring in multiple locations with greatly differing temperatures.

This may cause inaccurate measurements. Allow the equipment to stand for at least 2 hours before using if it is moved to a new location with a temperature difference of $36^{\circ}F / 20^{\circ}C$ or more.



Ensure the weighing platform is placed on a level and stable surface.

Avoid subjecting the equipment to excessive shocks or vibrations.

Use in a stable location.

Errors in measurements may occur if the device is used in an unstable location.

Scheduled Maintenance

TANITA recommends that each facility conduct periodic checks of each unit.

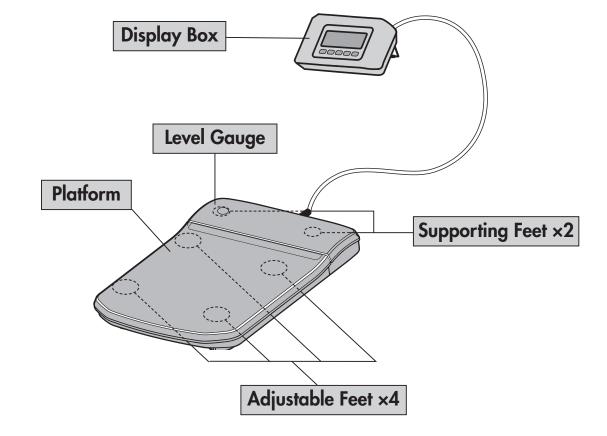
- 1. Check the following at least daily:
 - The unit is on a stable and level surface ie on a firm flooring, not on a thick carpet
- 2. Visually inspect the following at least weekly:
 - The display for any damage or contamination
 - All cables, cords, and connector ends for damage or contamination
 - All safety-related labeling for legibility
 - All accessories (sensors, electrodes, etc.) for wear or damage
- 3. Visually inspect the following at least monthly:
 - Screws on equipment

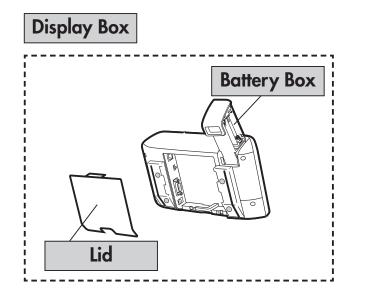
Update settings, replace items, or call for service as necessary according to the results of the visual inspections. Do not use the unit if you see any signs of damage. Equipment that has been damaged must be checked for proper operation by qualified personnel before using again.

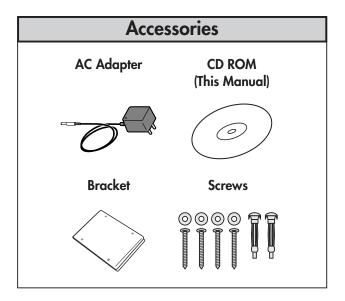
en

3. Part Names









Control Panel



Symbols and their Meanings

			Caution
ON	Display Unit On		Refer to the attached notes.
ZERO	Zero reset	\bigcirc	Output
kg/lb	Changing Measurement Units	===	Direct current
BMI	Select BMI mode		
▲/▼	Adjust height for BMI		
OFF	Display Unit Off		

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4. Functions

Automatic Power Off

(en)

This equipment has an automatic power off function that automatically turns off the power in order to reduce battery consumption.

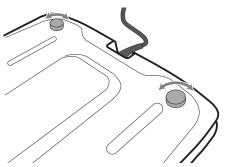
If the display does not change for 30 seconds, the power will be automatically turned off.

Temporarily Disabling Automatic Power Off

This function can be temporarily disabled using the following procedure. When the power is off, hold the ▲ key down and immediately (within 0.5 seconds) start the device by pressing the ON key. When the power is turned off, the automatic power off function will be enabled again.

5. Set up

Flat and stable location



The position of the two adjustable supporting feet on the back of the platform.

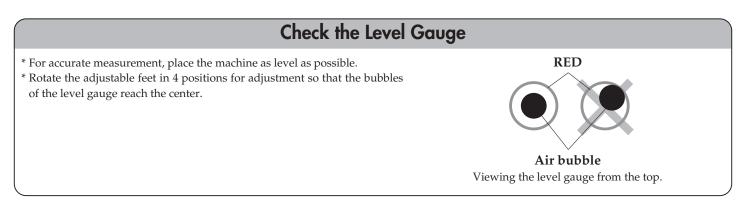
To obtain the highest level of accuracy, please make sure that all four (4) feet are touching the floor evenly.

For further accuracy and security, position the two (2) adjustable supporting feet using the knobs shown in the figure on the left until they just make contact with the floor (do not overextend).

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

ACaution

Put the weighing platform on a flat, level surface.



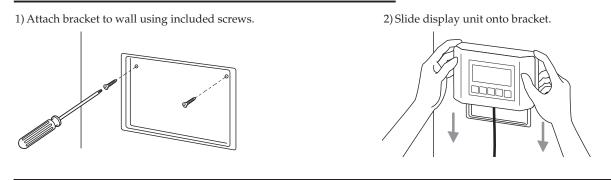
When using the stand



Please pull out the stand at the back of the display box. When putting away the display box, please insert the stand in the slot on the back of the display box.

en

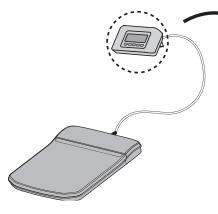
When installing the display box on the wall



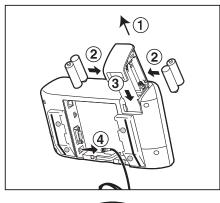
6. Power supply

AC adapter

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



Batteries





<Back side>



Plug in the AC adapter. Insert the AC adapter jack into the DC Jack on the back of the display box.

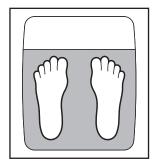
- 1) Pull up the battery case which is located on top of display.
- 2) Ensure that the batteries are inserted with correct polarity.
 - 3) Push down the battery case completely.
 - 4) Unplug the AC adapter jack on the back of the display box.
 - * Insert new batteries such that the negative terminals of the batteries are pushed up against the coils within the battery housing.



Unplug the AC adapter jack, or the scale won't work.

1. Standard Weighing Procedures

- 1) Turn on the power by pressing the $\frac{ON}{ZERO}$ key.
- 2) After all the segments flash, [0.0lb / 0.0kg] is displayed.



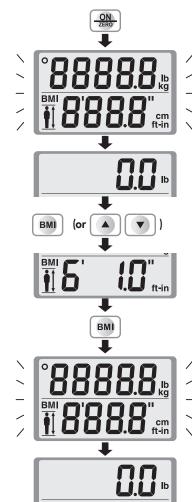
- 3) The person to be weighed should stand still in the middle of the platform.
- 4) The weight will be stable and displayed on the display. A beep sound will be heard and "O" sign will appear in the upper left corner of the display.
 - When the scale is connected to an external device, weight data will be exported at this time.
- 5) The scale will automatically shut off after stepping off from the platform.
- **Note:** Do not press the ON key while standing on the scale, as accurate measurement will not be possible.

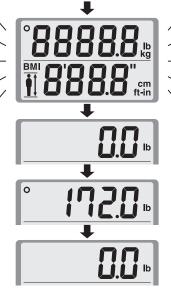
2. BMI Weighing

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



- 3) Press the BM key (or). The default height [5ft7.0in / 170cm] will be displayed.
- 4) Set the height with the 🔺 💌 key.
- 5) Press the BMI key.
- 6) All the segments flash, [0.0bl / 0.0kg] is displayed again.





ON



- 7) The person to be weighed should stand still in the middle of the platform.
- 8) The weight will be stable and displayed on the display. A beep sound will be heard and "O" sign will appear in the upper left corner of the display.

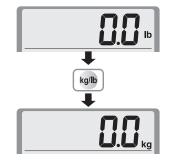
The weight and BMI calculation will then be displayed.

When the scale is connecting to an external device, weight, height and BMI data will be exported at this time.

9) The scale will automatically shut off after stepping off from the platform.

3. Changing Measurement Units

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



Press the kg/lb key.

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

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

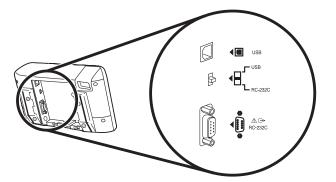
4. Power off

Press the kg/lb key and $\frac{ON}{ZERO}$ key at the same time to turn off.

8. Based on NIH/WHO BMI Guidelines

Under Weight		BMI < 18.5	
Normal Range		$18.5 \le BMI \le 25$	
Pre obese		$25 \le BMI < 30$	
Obese CLASS I		$30 \le BMI < 35$	
Obese CLASS II		$35 \le BMI \le 40$	
Obese	CLASS III	$BMI \ge 40$	

9. 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.

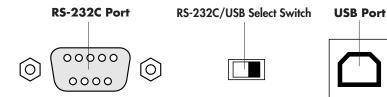
Specifications

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





If you want to use the USB output, you must install the necessary driver on to your PC, available to download from <u>http://www.tanita.com</u>

Signal Line Name and Connection Method

Terminal no.	Signal name	
1		
2	TXD	5 1
3		
4		$\bigcirc \begin{pmatrix} \diamond \circ \circ \circ \circ \\ \varphi \circ \circ \circ \phi \end{pmatrix} \bigcirc$
5	GND	
6		
7		9 0
8		
9		

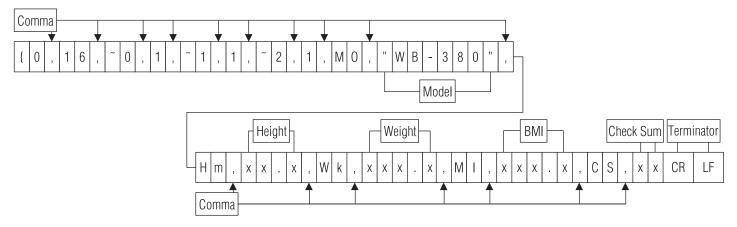
Output data

Name of item	Hea	nder	Output data (ASCII code)		Pattern		
Indiffe of Item	kg mode	lb mode			BMI mode	Weight mode	
Control data	{	0	Fix to 16		2 Bytes fixed	\checkmark	\checkmark
Control data	~	0	Fix to 1		1 Byte fixed	\checkmark	\checkmark
Control data	~	1	Fix to 1		1 Byte fixed	\checkmark	—
Control data	~	2	Fix to 1		1 Byte fixed	\checkmark	—
Model	М	(O	"WB-380'	1	8 Byte fixed	\checkmark	\checkmark
Height	Hm	Hf	xxx.x	x.xx.x	4 – 6 bytes	\checkmark	—
Weight	Wk	Wp	xxx.x		3 – 5 bytes	\checkmark	\checkmark
BMI	Ν	11	XXX.X		3 – 5 bytes	\checkmark	
Checksum	C	S	xx		2 Bytes fixed	\checkmark	\checkmark

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.
- 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]



10. 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 $\underbrace{\frac{ON}{ZERO}}_{ZERO}$ 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 power outlet. The batteries may be weak. Try an AC adapter or new LR6 (AA) batteries. Check the terminals of the batteries for contamination Batteries — Unplug the DC connecter on the back of the display box. 		
"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. 		
The weight does not stabilize	Are you moving during measurement?Is the measured weight within the range of weight 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.		

11. Specifications

Model			WB-800AS plus	
Measurement System			Strain Gauge Load Cell	
Weight Measurement	Maximum Capacity /]	Minimum Graduation	440lb / 0.2lb	200kg / 0.1kg
weight weasurement	Pance of Weight	Standard	0 - 440lb	0 - 200kg
	Range of Weight	Step on	22 - 440lb	10 - 200kg
Input Items	Hei	ight	2ft – 8ft 2in 0.5in increment	61cm-250cm 1cm increments
		Weight	440lb / 0.2lb	200kg / 0.1kg
Output Items	Display	Height	2ft – 8ft 2in 0.5in increment	61cm-250cm 1cm increments
	-	BMI	0.1 increments	
				W395 x D529 x H110 mm
Size Overa Platfor		21411	Total 17.0lb Total 7.7kg	
		form	W15.0 x D15.0 x H2.5 in	W380 x D380 x H64 mm
Disular			Upper 5Digits and Lower 4Digits LCD	
Display			Height of numerals 1in / 24mm	
Output Data Interface			RS-232C (D sub 9-pin Female connector) USB (B-type)	
Power Source			AC adapter (included) Center Minus	
Power Consumption		0.3 W max.		
Rated Power		DC 6V (LR6 - AA Alkaline Battery x 4)		
Temperature Range of usage			41°F - 95°F	5°C - 35°C

USA and Canada

Federal Communications Commission and Canadian ICES Notice

This equipment has been tested and found to comply with the limits for a Oass B digital device, pursuant to Part 15of the FCC Rules and Canadian ICES-003. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Tanita Corporation may void the user's authority to operate the equipment.

-U.S.A representative> **TANDTA Corporation of America, Inc.**

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