

TBF-612 BODY FAT MONITOR/SCALE

Instruction Manual

Read this Instruction Manual carefully and keep it for future reference.



Operating Instructions

Thank you for your selection of the Tanita Body Fat Monitor/Scale TBF-612. This personal model with Athlete mode uses the BIA (Bioelectrical Impedance Analysis) method, a state-of-the-art technology for body fat measurement.

Note: Read this Instruction Manual carefully and keep it handy for future reference.



Safety precautions

- Persons with implanted medical equipment, such as a pacemaker, should not use the TBF-612. This Body Fat Monitor/Scale passes a low electrical signal through the body during measurement, which may interfere with the operation of a pacemaker.
- The Tanita Body Fat Monitor/Scale TBF-612 is intended for home use only. This unit is not intended for professional use in hospitals or other medical facilities. It is not equipped with the quality standards required for professional use.
- Do not use this unit on slippery surfaces such as tile flooring or wet floors.
- Disabled people should be assisted by someone else, or use a handrail when using the TBF-612.

Important notes for users

The TBF-612 is intended for use by male and female adults and contains an Athlete mode. The Athlete mode was developed to provide a more accurate reading for athletic body types. Athletic body types are physiologically different than standard adult body types, due to muscle mass and hydration level differences.

The Athlete mode is intended for use by *persons involved in intense physical activity* of at least 10 hours per week and who have a resting heart rate of less than 60 beats per minute or less. Tanita's Athlete definition includes "lifetime of fitness" individuals who have been fit for years but currently exercise less than 10 hours per week.

Tanita's Athlete definition does not include "enthusiastic beginners" who are making a real commitment to exercising at least 10 hours per week but whose bodies have not yet changed to require the Athlete mode.

Body fat percentage measurements may be slightly lower or higher for the following categories of people:

- Adults seventy years old or older
- Persons undergoing dialysis
- Persons suffering from edema

Body fat percentage measurements for these persons should not be treated as absolute values, but may be used as relative values for checking body fat percent variations over a period of time.

The TBF-612 is not intended for pregnant women, professional athletes, or bodybuilders.

Recommendations for exercise programs or diets based on measured data should be determined by a doctor or licensed medical professional. Do not attempt to evaluate the data by yourself.

Tanita takes no responsibility for any kind of damage or loss caused by these units, or any kind of claim made by a third person.

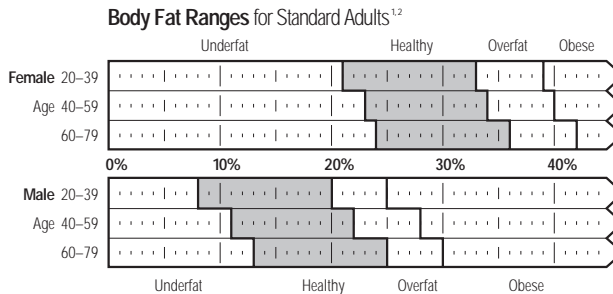
Note: Measurements will vary with the amount of moisture in the body, and can be affected by dehydration caused by such factors as alcohol consumption, menstruation, illness, strenuous exercise, etc.

Principles of body fat percentage measurement

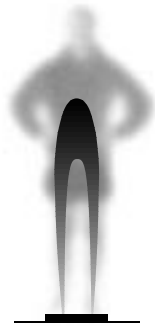
The Tanita Body Fat Monitor/Scale TBF-612 allows you to estimate your body fat percentage at home as easily as you measure your weight.

What is body fat percentage?

Body fat percentage is the percentage of fat in your body. Until now, your absolute weight has determined whether or not you were considered overweight or obese. In recent years, the definition of obesity has been refined to mean the presence of excess body fat. Too much body fat has been linked to conditions such as high blood pressure, heart disease, diabetes, cancer, and other disabling conditions.



¹ Based on NIH/WHO BMI Guidelines.
² As reported by Gallagher, et al., at NY Obesity Research Center.
 To determine the percentage of body fat that is appropriate for your body, consult your physician.



Tanita's patented "foot-pad" design sends a safe, low-level electrical signal through the body to determine its composition.

The BIA method

The TBF-612 uses the BIA (Bioelectrical Impedance Analysis) technique. In this method, a safe low-level electrical signal is passed through the body. It is difficult for the signal to flow through fat in the human body, but easy to flow through moisture in the muscle and other body tissues. The difficulty with which a signal flows through a substance is called impedance. So the amount of fat in the body can be accurately estimated by measuring the impedance. The signal used is very low, making it safe and imperceptible.

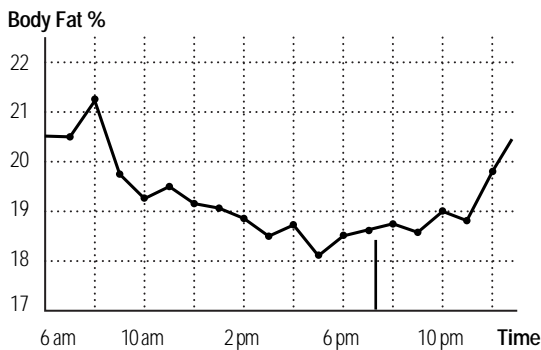
The illustration on the left show how the signal travels through the body.

Body fat percentage fluctuations in a day

Hydration levels in the body may affect body fat readings. Readings are usually highest in the early waking hours, since the body tends to be dehydrated after a long night's sleep. For the most accurate reading, a person should take a body fat percentage reading at a consistent time of day under consistent conditions.

Besides this basic cycle of fluctuations in the daily body fat readings, variations may be caused by hydration changes in the body due to eating, drinking, menstruation, illness, exercising, and bathing. Daily body fat readings are unique to each person, and depend upon one's lifestyle, job and activities.

The graph on the left shows an example of daily body fat percentage fluctuations.



Daily fluctuations in body fat percentage based on the BIA method

Advantages of the Tanita TBF-612

Previously, body fat percentage was determined by measuring the thickness of subcutaneous fat by pinching it with calipers, or by laying a person on a scanning bed and passing a current from hand to foot. However, these methods had problems; measurement values varied, professional skills were required, and extensive time was required for measurement. Currently, the standard methods of fat percentage measurement are *DEXA* (dual energy x-ray absorptiometry) and *Hydrodensitometry* (underwater weighing).

Based on data from both the DEXA and underwater weighing methods, Tanita established a formula for estimating the percentage of body fat. There is a high correlation between measurements taken with the TBF-612 and those obtained through DEXA and underwater weighing.

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FEDERAL COMMUNICATIONS COMMISSION NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. 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

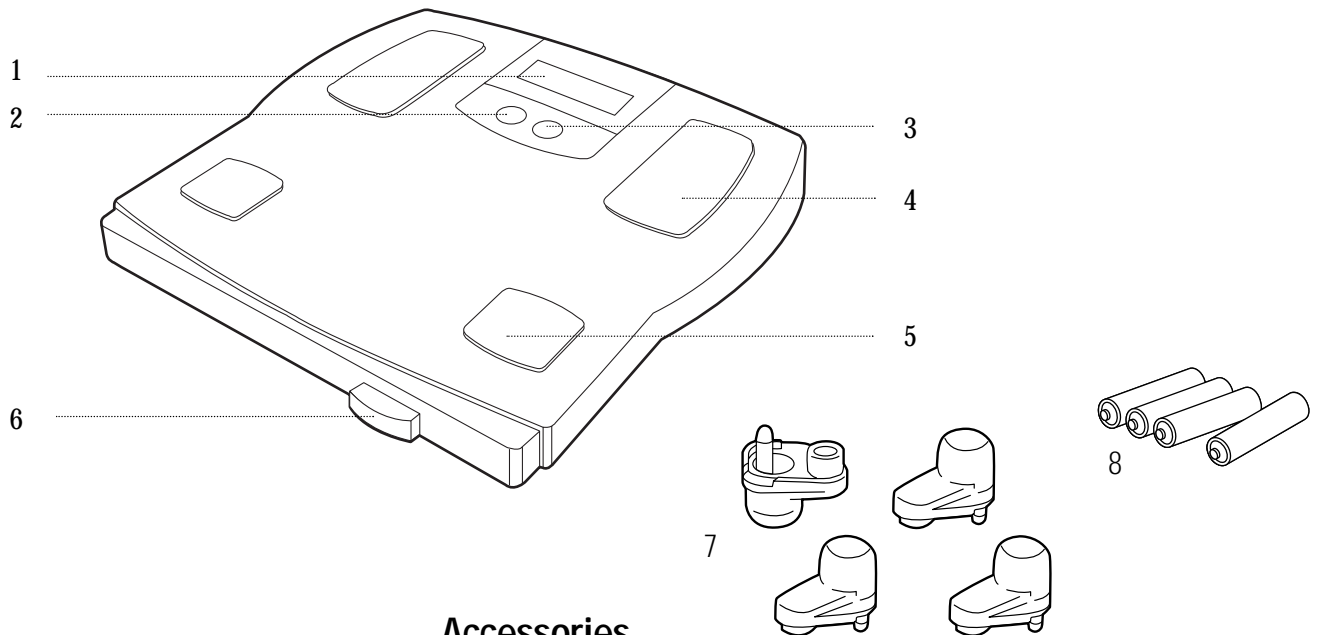
The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Tanita Corporation may void the user's authority to operate the equipment.

Components

- Support feet
- Batteries (4)
- This Instruction Manual
- Educational booklet
- "Getting Started" workbook

Features and functions of components:

1. Display screen
2. Orange Set button
3. Green Arrow (select) button
4. Ball-of-foot electrodes
5. Heel electrodes
6. Personal key (start switch)



Accessories

7. Support feet (4)
Only needed if unit is placed on carpet. Do not use these feet on hard flooring.
8. Batteries (4)
These are trial batteries; their service life will be short. New batteries will last for about a year if the unit is used every day.

Useful features of the TBF-612

The TBF-612 allows you to measure both weight and body fat percentage simultaneously as easily and simply as stepping on a scale.

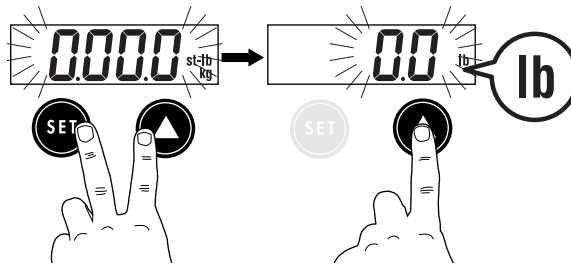
The TBF-612 can be set for a standard adult or athlete and male or female, increasing the accuracy of the measurements.

Personal data (Adult or Athlete, gender and height) are stored in the memory of the unit.

Selecting the Weight Mode (lb, kg or st-lb)

The TBF-612 can measure weight in three different modes: lb (pounds), kg (kilograms) or st-lb (British stone-pounds). The default setting (the setting at which Tanita products are shipped) is lb. If you would like to change that setting, or if at any point another setting has been inadvertently entered, follow these steps:

Press **SET** and **▲** simultaneously. Release the buttons, the display will flash. Press **▲** to cycle through each weight mode until just the mode that you require is displayed. Then press **SET**. The display screen will flash to confirm your selection and store it in memory.



Note: If weight mode is set to pounds or stone-pounds, the height programming mode will be automatically set to feet and inches. Similarly, if kilograms is selected, height will be automatically set to centimeters.

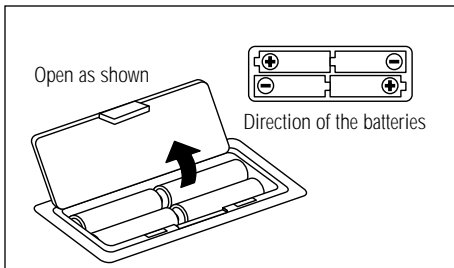
Automatic shut-down function

The automatic shut-down function shuts off the power automatically in the following cases:

- If you interrupt the measurement process.
The power will shut down automatically within 10 to 20 seconds, depending upon the type of operation.
- If an extraordinary weight is applied to the platform.
- If you make a mistake during measurement or a key operation.

Note: If the power shuts off automatically, repeat the steps from the beginning (see p.8 for steps).

Preparations before use:

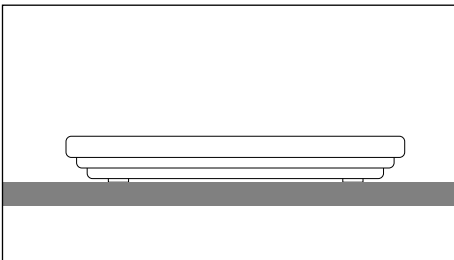


Inserting the batteries

1. Locate the battery cover on the back of the monitor platform. Press the tab to release the cover as shown.
2. Insert the supplied batteries as indicated.



Note: Be sure that the polarity of the batteries is set properly. If the batteries are incorrectly positioned the fluid may leak and damage floors. If you do not intend to use this unit for a long period of time, it is advisable to remove the batteries before storage.

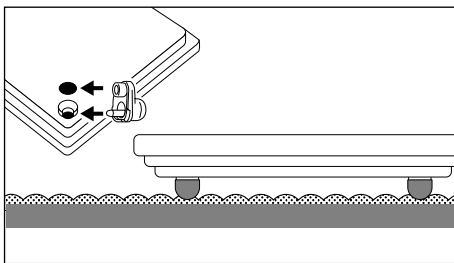


Positioning the monitor

Place the monitor on a hard, flat surface where there is minimal vibration to ensure safe and accurate measurement.



Note: To avoid possible injury, do not step on the edge of the platform.



Attaching the support feet (carpet use only)

Insert the support feet into the holes at the four corners on the bottom of the measuring platform.



Note: Do not use the monitor on any carpeting that is more than 0.8" (20 mm) in thickness.

Note: Do not use the support feet on hard, flat surfaces, as the unit may tip over.

Handling tips

This monitor is a precision instrument utilizing state-of-the-art technology. To keep the unit in the best condition, follow these instructions carefully:

- Do not attempt to disassemble the measuring platform.
- Store the unit horizontally, and place it so that the Personal key will not be pressed accidentally.
- Avoid excessive impact or vibration to the unit.
- Place the unit in an area free from direct sunlight, heating equipment, high humidity, or extreme temperature change.
- Never submerge in water. To clean, use a dampened cloth and mild detergent. Use alcohol to clean the electrodes.
- When you change the batteries, exchange all four batteries at the same time with new batteries.

If you need assistance, please call our toll-free customer service number at 1-800-TANITA-8.

How to measure body fat percentage

Overview of measuring

To get the most accurate absolute values, measurements should be taken while wearing no clothing, preferably in the evening, and after urinating. If you do not undress, always remove your socks or stockings, and be sure the soles of your feet are clean before stepping on the measuring platform. Stand erect on the platform. If used after bathing, the body must be completely dry.

Note: Accurate measurement will not be possible if the soles of your feet are not clean, or if your knees are bent or you are in a sitting position.

It is best to take measurements at the same time each day, preferably in the evening. If doing so is not convenient, remember to wait about three hours after rising, eating, or hard exercise before taking measurements. While readings taken under other conditions may not have the same absolute values, they are accurate for determining the percentage of change as long as the readings are taken in a consistent manner. To monitor progress, compare weight and body fat percentage measurements taken under the same conditions over a period of time.

Setting and storing data in memory

The TBF-612 can be operated only if data has been pre-programmed. Once programmed, tapping the Personal key turns the monitor on. The unit has an automatic shut-down function. If you do not step on the platform after pressing the Personal key, the unit will automatically shut off in about 30 seconds.



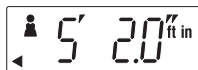
Turn the unit on.



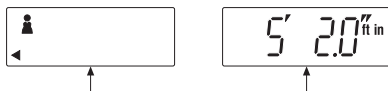
Select Standard Adult or Athlete. Install in memory.



Select gender. Install in memory.



Specify the height. Install in memory.



Confirmed data will flash for 3 seconds.

1. Turn on the power

When programming data, use the Orange Set button to turn the unit on.

2. Select Standard Adult or Athlete

Use the Green Arrow button to specify Adult or Athlete mode, then press the Orange Set button.

Adult = age 18 or older.

Athlete = adult involved in intense physical activity of at least 10 hours per week and who has a resting heart rate of approximately 60 beats per minute or less. This includes "lifetime of fitness" individuals but excludes "enthusiastic beginners." (See p.1 for Tanita's definition of "athlete.")

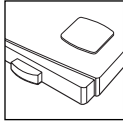
3. Select Male or Female

Use the Green Arrow button to select the appropriate gender, then press the Orange Set button. Male Female

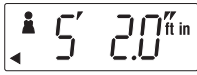
4. Specify the height

Use the Green Arrow button to specify the height in feet and inches (or cm if the weight mode is set to kg). Then press the Orange Set button.

The display will flash all data (Adult/Athlete, male/female and height) for 3 seconds to confirm the programming. The power will automatically turn off.



Turn the unit on.



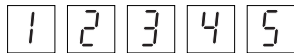
Pre-set data will appear.



Wait for "0.0 lb" to appear.



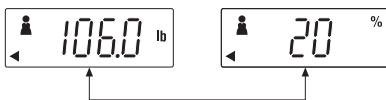
Weight will appear first.



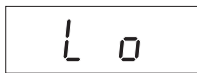
Display counts down from 5 to 1.



Body fat percentage will appear.



Data will be repeated 3 times, then the power will automatically turn off.



The batteries run low.

Taking measurements

1. Turn on the power

Using your toe, turn the unit on by tapping the Personal key located on the lower right-hand corner of the platform.

Your pre-set data will appear (Adult/Athlete, gender, height).

Immediately after your pre-set data, the display will show "0.0".

2. Take measurement

Wait for "0.0" to appear before stepping onto the measuring platform.

Note: If you step on before "0.0", you will not receive a reading.

Be sure you are barefoot, and that the soles of your feet are clean and dry.

Be sure that your toes and heels are correctly aligned on the measuring platform. Stand erect on the platform.

Note: If you do not step onto the measuring platform within about 20 seconds after "0.0" appears, the power shuts off automatically.

Your weight will be shown first. The numbers 5, 4, 3, 2, 1 will appear one after another in the display. The numbers will disappear, and your body fat percentage will be displayed.

Continue to stand erect on the platform. The values of body fat percentage and body weight will be displayed alternately at 2-second intervals. If you remain on the platform, the display will continue for about 30 seconds, and then the power will automatically turn off.

If you step off the platform, the alternating display of body fat percentage and body weight will be repeated 3 times, and then the power will automatically turn off.

Multiple users

The unit may be used by more than one person. Simply repeat the programming process. (Steps 1 through 4 of Setting and storing data in memory.)

Note: Previously stored data will be erased.

Replacing the batteries

When the batteries run low, the "Lo" message will appear on the display window. When this message appears, be sure to replace the batteries immediately, since weak batteries will affect the accuracy of your measurements.

Your setting will not be erased from the memory when you remove the batteries.

New batteries will last for about one year if the unit is used once every day. The unit comes with trial batteries; their service life will be short.

Troubleshooting

If the following problems occur...

- “st-lb” or “kg” appears while taking a weight measurement.



- Nothing appears in the display screen after initial display.
- Nothing appears when the Personal key is pressed, or
the display shows “- - - -” and goes off when the Personal key is pressed.
- The body fat percentage measurement does not appear after the weight is measured.
- The body fat percentage measurement is extremely low/extremely high.

Then...

The unit’s “Weight Mode” has been set to measure your weight in units of stone-pounds or kilograms. Refer to the *Selecting the Weight Mode (lb, kg, or st-lb)* on p.5 if you would like to change the setting back to pounds (lb).

Check foot alignment. Make sure you wait for “0.0” to appear before stepping on the platform. Check to see that the batteries are fresh and are in the correct positions.

No data (gender or height) has been stored in the memory.

Vibration will interfere with measurement of the fat percentage. Be sure to stand erect and still on the measuring platform. Do not bend your knees. Be sure that shoes and socks are removed and check foot alignment. Step off and repeat steps on p.8.

Be sure you are measuring in the correct user mode (male or female), and that the soles of your feet are clean and properly aligned with the guides on the measuring platform. Dehydration, exercise, foot calluses, etc. can interfere with measurement of the fat percentage. Step off and repeat steps on p.8.

Specifications

TBF-612

Weight Capacity

300 lb (136 kg) (21 st-6 lb)

Weight Increments

0.5 lb (0.2 kg) (0.5 lb)

Fat Percentage

1%

Power Supply

DC 6V AA-size (UM3-type) battery (x4)—included

Power Consumption

60 mA maximum

Measuring Current

50 kHz 500 μ A

UPC No

TBF-612-DG (Dark Grey) 742496-166210

After sales service

Please contact the store at which you bought this monitor for any inquiry regarding operation or trouble, request for repair and/or placement of an order for parts or products. Or call 1-800-TANITA-8 (USA and Canada only).

TANITA PRODUCTS LIMITED WARRANTY

Not Valid Without Proof of Purchase

Your Tanita product is warranted to the original consumer only, for three (3) years, to be free from defects in materials and workmanship under normal use. This product is designed **for personal use only**. Tanita Corporation of America reserves the right to nullify the warranty agreement should the product be used in a commercial environment. This warranty is void if the product has been tampered with or mistreated, or if the defect is related to servicing or parts not supplied by us. Our obligation under this warranty is limited solely to the charge of repairing the product, plus the cost of parts or, at the option of Tanita, replacing the product with an equivalent model. There are no express or implied warranties except as listed above.

Tanita is not liable for incidental or consequential damages for failure or malfunction of the product and any recovery may not be greater than the purchase price paid for this product. Some states do not allow limitation on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. **No person is authorized to change the terms of this warranty.**

IF PRODUCT IS DEFECTIVE OR NEEDS REPAIR

Do not return this product to the place of purchase; doing so may delay the processing of your warranty claim.

Call Tanita at: 1-800-TANITA-8 to receive a Return Authorization Number before returning this product. Include \$12.50 for handling, return postage and insurance to the facility listed below. **Proof of purchase must accompany the product.** Because of possible loss, we recommend insuring your product, return receipt requested, when using the mail. If you do not receive a receipt within a reasonable time, start a tracer through the originating post office. It is important that you pack the product carefully prior to shipment to prevent damage in transit and that you include a letter describing in detail the specific condition requiring adjustment or repair.

Tanita PRODUCTS LIMITED AFTER WARRANTY

All terms and conditions apply as specified above in the original Tanita Limited Warranty **except** for the cost of labor and parts:

- Minimum charge for After Warranty labor is \$30 per hour, plus the cost of parts.
- You will be notified by mail or telephone of the total cost to repair your product to working condition, so prepayment can be arranged.
- Your approval is required before any repair work can be performed on your product.

Please complete the following information and retain for your records.

MODEL: _____ DATE PURCHASED: _____ / _____ / _____

PURCHASED FROM: _____

ADDRESS: _____



Please send all returns to:
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2625 S. Clearbrook Drive
Arlington Heights, IL 60005 USA



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