

Instruction Manual

Full Body Sensor Body Composition Monitor and Scale

Model HBF-510



A Good Sense of <u>Health</u>

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INTRODUCTION

Thank you for purchasing the OMRON[®] HBF-510 Full Body Sensor Body Composition Monitor and Scale.

Fill in for future reference. DATE PURCHASED:_____ SERIAL NUMBER:

Staple your purchase receipt here

The Full Body Sensor Body Composition Monitor and Scale is easy to use. The monitor calculates the estimated values for body fat percentage, skeletal muscle percentage and visceral fat level using the BI (Bioelectrical Impedance) Method. The monitor also calculates the BMI (Body Mass Index) as well as weight. Push the power switch on, select your Personal Profile Number, and step onto the measurement platform.

Your HBF-510 comes with the following components:

- Monitor/Scale
- Instruction Manual
- 4 "AA" Batteries
- Measurement Log Sheet

WARNING

Do not use, or allow others to use, this monitor if fitted with a cardiac pacemaker or other implanted medical device.

Pregnant women should not use this device.

Read all of the information in the instruction manual and any other literature in the box before operating the unit.

SAVE THESE INSTRUCTIONS

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SAFETY INFORMATION

To assure the correct use of the product, basic safety measures should always be followed including the warnings and cautions listed in this instruction manual.

SAFETY SYMBOLS USED IN THIS INSTRUCTION MANUAL			
Warning	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.		
A Caution	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property.		

OPERATING THE DEVICE

- Δ Do not use this monitor if you have a cardiac pacemaker or other implanted medical device. The Full Body Sensor Body Composition Monitor and Scale passes an extremely weak electrical current of 50kHz and less than 500µA through your body when taking a measurement to determine the amount of fat tissue. This weak current is not felt while using the monitor. Do not use, or allow others to use, this monitor if fitted with a cardiac pacemaker or other medical device.
- A Pregnant women should not use this device.
- A Contact your physician or healthcare provider before beginning a weight reduction or exercise program.
- **A** Keep the monitor out of the reach of young children. The cord can become entangled and cause strangulation.
- A Persons with disabilities or persons who are physically frail should be assisted by another person when using this monitor or use a handrail, a walker, or other support device to prevent falling when stepping on and off the monitor.
- \triangle Read all of the information in the instruction manual and any other literature in the box before operating the unit.
- \triangle Do not use mobile telephones, microwave ovens or other devices that generate strong electrical or electromagnetic fields near the monitor. This may result in an operational failure.
- ⚠ Do not step on the edge or the display area of the measurement platform. The monitor may tilt. The display unit may be damaged.
- ▲ Do not step on the measurement platform when your body or feet are wet, for example after taking a bath or shower. You may slide and lose your balance.
- ▲ Do not place the monitor on a cushioned floor surface such as a carpet or mat. A correct measurement may not be possible.
- ▲ Do not use the unit on slippery surfaces such as tile floors or wet floors. The monitor may move. You may lose your balance and fall.
- ⚠ Do not jump on the measurement platform. You may lose your balance and fall. The monitor may be damaged.
- ▲ Stand on the measurement platform with bare feet. Attempting to stand on the measurement platform when wearing socks may cause you to slip and lose your balance.
- \triangle Do not insert the batteries with their polarities incorrectly aligned.

SAFETY INFORMATION

OPERATING THE DEVICE (continued)

- \triangle Do not use new and worn batteries together.
- \triangle Do not use batteries of a different kind together.
- A Replace old batteries with new ones immediately. Replace all four batteries at the same time.
- \triangle Remove the batteries if the unit will not be used for three months or more.
- \triangle Do not expose the batteries to flames or fire.
- A Should battery fluid leak and contact your eyes, skin or clothing immediately rinse with plenty of clean water. Immediately contact your physician in case of eye or skin contact.
- ▲ Dispose of the device, batteries, components and optional accessories according to applicable local regulations. Unlawful disposal may cause environmental pollution.
- \triangle Operate the unit only as intended. Do not use for any other purpose.
- This unit is intended for home use only. It is not intended for professional use in hospitals or other medical facilities. This unit does not support the standards required for professional use.
- A Remove the display unit from main unit before stepping on the unit. If you try to remove the display unit while stepping on to the unit, you may lose your balance and fall.
- ▲ Do not hold the handle inside the electrode grips when storing the display unit in the display unit holder. Your fingers could be trapped between the handle and the unit.

CARE AND MAINTENANCE

- \triangle Do not disassemble or modify the unit. Changes or modifications not approved by Omron Healthcare will void the user warranty.
- \triangle Do not subject the monitor to strong shocks, such as dropping the unit on the floor.
- \triangle Do not submerge the device or any of the components in water.

PRINCIPLES OF FULL BODY SENSING CALCULATIONS

What is Full Body Sensing?

Full Body Sensing provides a comprehensive understanding of your body composition to help you reach and/or maintain your fitness goals. Unlike other body composition monitors that rely on foot-to-foot measurements, Omron's monitor measures the whole body (arm to foot) which provides a clinically-proven accurate profile.

How Omron calculates your body composition:

Omron's algorithm focuses on the Bioelectrical Impedance Method as well as height, weight, age and gender.

Bioelectrical Impedance Method: The Omron Full Body Sensor Body Composition Monitor and Scale estimates the body fat percentage by the Bioelectrical Impedance Method. Muscles, blood, bones and body tissues with high water content conduct electricity easily. On the other hand, body fat does not store much water, therefore has little electric conductivity. The Omron Full Body Sensor Body Composition Monitor and Scale sends an extremely weak electrical current of 50 kHz and less than 500 μ A through your body to determine the amount of water in each tissue. You will not notice or feel the electrical current.

The ratios of the water in your upper and lower body change throughout the day – as gravity pulls more water into your lower extremities. This means the electrical impedance of the body also varies – if more water is in your legs, other monitors such as foot-to-foot may show incorrect body fat readings. The Omron Full Body Sensor Body Composition Monitor and Scale takes measurements from both hands and feet – which reduces the influence water movement makes on your body composition results.

BODY MASS INDEX

Body Mass Index (BMI) is a number calculated from a person's weight and height. BMI is a reliable indicator of body fatness for people. BMI does not measure body fat directly, but research has shown that BMI correlates to direct measures of body fat. BMI is used as a screening tool to identify possible weight problems for adults.

BMI is calculated by using the following formula based on a ratio between your weight and height:

BMI = weight (lb) / height (inches) / height (inches) × 703

Interpreting the BMI Result

BMI	BMI (Designation by the WHO)	BMI Classification Bar	BMI Rating
Less than 18.5	- (Underweight)	•	7.0 - 10.7 10.8 - 14.5 14.6 - 18.4
18.5 or more and less than 25	0 (Normal)		18.5 - 20.5 20.6 - 22.7 22.8 - 24.9
25 or more and less than 30	+ (Overweight)	••••••	25.0 - 26.5 26.6 - 28.2 28.3 - 29.9
30 or more	++ (Obese)		30.0 - 34.9 35.0 - 39.9 40.0 - 90.0

Source: Values for obesity judgment proposed by WHO, the World Health Organization.

BODY FAT

Body fat serves a vital role in storing energy and protecting internal organs. We carry two types of fat in our bodies: 1) essential fat which is stored in small amounts to protect the body and 2) stored fat which is stocked for energy during physical activity. While too much body fat may be unhealthy, having too little fat can be just as unhealthy. Also, the distribution of body fat in men and women is different, so the basis for classifying the body fat percentage is different between the genders.

Gender	Age	Low (–)	Normal (0)	High (+)	Very High (++)
	20-39	< 21.0	21.0 - 32.9	33.0 - 38.9	≥ 39.0
Female	40-59	< 23.0	23.0 - 33.9	34.0 - 39.9	≥ 40.0
	60-79	< 24.0	24.0 - 35.9	36.0 - 41.9	≥ 42.0
	20-39	< 8.0	8.0 - 19.9	20.0 - 24.9	≥ 25.0
Male	40-59	< 11.0	11.0 - 21.9	22.0 - 27.9	≥ 28.0
	60-79	< 13.0	13.0 - 24.9	25.0 - 29.9	≥ 30.0

Interpreting the Body Fat Percentage Result

Source: NIH/WHO guidelines for BMI

Source: Gallagher et al., American Journal of Clinical Nutrition, Vol. 72, Sept. 2000

VISCERAL FAT

Visceral fat is found in the abdomen and surrounding vital organs. It is different from fat found directly underneath the skin, which is referred to as subcutaneous fat. Visceral fat can go largely unnoticed because it's not visible to the naked eye. One way visceral fat can be seen is through Magnetic Resonance Imaging (MRI).

MRI Cross Section at the Navel Level



Too much visceral fat is thought to be closely linked to increased levels of fat in the bloodstream, which may lead to conditions such as high cholesterol, heart disease and type 2 diabetes. In order to prevent or improve these conditions, it is important to try to reduce the amount of visceral fat levels to an acceptable level.

Interpreting the Visceral Fat Level Result



Visceral fat area (0 - approx. 300 cm², 1 inch=2.54 cm) distribution with 30 levels. Source: Omron Healthcare

NOTE: Visceral fat levels are relative and not absolute values.

SKELETAL MUSCLE

Skeletal muscle is the type of muscle that we can see and feel. When you work out to increase muscle mass, skeletal muscle is being exercised. Skeletal muscles attach to the skeleton and come in pairs -- one muscle to move the bone in one direction and another to move it back the other way. Increasing skeletal muscle will increase your body's energy requirements. The more muscle you have, the more calories your body will burn. Building skeletal muscle can help prevent "rebound" weight gain. The maintenance and increase of skeletal muscle is closely linked to resting metabolism rate.

Gender	Age	Low (–)	Normal (0)	High (+)	Very High (++)
	18-39	< 24.3	24.3 - 30.3	30.4 - 35.3	≥ 35.4
Female	40-59	< 24.1	24.1 - 30.1	30.2 - 35.1	≥ 35.2
	60-80	< 23.9	23.9 - 29.9	30.0 - 34.9	≥ 35.0
	18-39	< 33.3	33.3 - 39.3	39.4 - 44.0	≧ 44.1
Male	40-59	< 33.1	33.1 - 39.1	39.2 - 43.8	≥ 43.9
	60-80	< 32.9	32.9 - 38.9	39.0 - 43.6	≥ 43.7

Interpreting the Skeletal Muscle Percentage Result

Source: Omron Healthcare

WARNING

Contact your physician or healthcare provider before beginning a weight reduction or exercise program.

LONG-TERM PLANNING FOR SUCCESSFUL WEIGHT LOSS

There are lots of reasons for people to lose weight. To be healthier. To look better. To feel better. To have more energy.

No matter what the reason, successful weight loss and healthy weight management depend on sensible goals and expectations. If you set sensible goals for yourself, chances are you'll be more likely to meet them and have a better chance of keeping the weight off.

The foundation of a successful weight loss program remains a combination of a healthy diet and exercise customized for you. Simply reducing food intake to lose weight can lead to a decline in muscle mass and bone density. So even though your weight goes down, your resting metabolism is reduced making the body more prone to putting on fat. More skeletal muscle can prevent "rebound" weight gain.

The Omron Full Body Sensor Body Composition Monitor and Scale tracks your progress by monitoring weight, skeletal muscle, body fat and BMI to help you reach your goals.

Here's a comparison of losing weight quickly versus slowly:



Example comparing the same loss of 20 lb:

RECOMMENDED MEASUREMENT TIMES

Being aware of the times when the body fat percentages shift within your daily schedule will assist you in obtaining an accurate trending of your body composition. It is recommended to use this unit in the same environment and daily circumstances. Reference the chart below:



Avoid Taking Measurements Under the Following Conditions:

- Immediately after vigorous exercise, after a bath or sauna.

- After drinking alcohol or a large amount of water, after a meal (about 2 hours).

If a measurement is taken under these physical conditions, the calculated body composition may differ significantly from the actual one because the water content in the body is changing.

Results may differ from actual body fat percentage

There are certain conditions when significant differences may occur between the estimated and the actual body fat values. These differences may be related to changing ratios of body fluid and/or body composition.

The body fat percentage measured by this monitor may significantly differ from the actual body fat percentage for the following people:

- Elderly people
- People with a fever
- Body builders or highly trained athletes
- Persons undergoing dialysis
- Persons with osteoporosis who have very low bone density
- Persons with edema (swelling in the body)
- Children in growth stage



KNOW YOUR UNIT

Guest Indicator	Measurement Start Indicator
Personal Profile Number	A'G START IX1 Low Battery Indicator
Display Mode Indicator WEIGH	
Gender Indicator	1/4 1/2
Age Indicator	3/4 Ibkg — Weight Results/
Height Indicator	Body Composition Results
-	

Measurement Progress/Body Fat Percentage, Skeletal Muscle Percentage, Visceral Fat Level and BMI Classification Bar

KNOW YOUR UNIT

USING THE DISPLAY UNIT

1. Remove the Display Unit from the Display Unit Holder on the monitor.

2. To store the cord into the Display Unit Holder, make sure the cord is coiled evenly, and does not stick out of the Display Unit Holder.

3. Place the Display Unit into the Display Unit Holder.

The display unit will click into place.

POWER SWITCH

The power switch is located at the front of the monitor. Press the power switch to turn the monitor on and off.

The power will automatically switch off in the following conditions:

- 1. If the monitor is not used within one minute of 0.0 lb appearing on the display.
- 2. If no information is entered for five minutes when entering personal data.
- 3. If the monitor is not used for five minutes after the measurement results are displayed.
- 4. Five minutes after the result is displayed when measuring weight only.

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BATTERY INSTALLATION

1. Locate the Battery Cover on the back of the unit.

- 1) Press the tab on the battery cover in the direction of the arrow to release the cover as illustrated.
- 2) Pull the tab of the cover upwards.
- 2. Install 4 "AA" size batteries so the + (positive) and – (negative) polarities match the polarities of the battery compartment as indicated in the battery compartment.

For both the top row and the bottom row, slide the first battery into the battery compartment before inserting the second battery.

3. Replace the battery cover.

- 1) Align the hooks on the battery cover with the slots in the battery compartment.
- 2) Push the battery cover until the tab clicks into place.







BATTERY INSTALLATION

BATTERY REPLACEMENT

Personal profiles will not be deleted during battery replacement.



When the Low Battery Indicator appears on the display screen, remove all four batteries. Replace with four new batteries at the same time.

NOTES:

- New batteries will last for approximately one year if the unit is used four times per day. Trial batteries supplied with the unit may have a shorter life.
- Remove the batteries if you do not intend to use the unit for a period of three months or longer before placing in storage.

▲CAUTION:

Should battery fluid leak and contact your eyes, skin or clothing immediately rinse with plenty of clean water. Immediately contact your physician in case of eye or skin contact.

▲CAUTION:

Dispose of the device, batteries, components and optional accessories according to applicable local regulations. Unlawful disposal may cause environmental pollution.

To measure Body Composition, your personal data must be set. Your personal data includes your age, gender and height. The Full Body Sensor Body Composition Monitor and Scale provides two options to enter your personal data.

- 1) Select a personal profile number to save your personal data. The monitor saves up to 4 personal profiles. Select a number 1 through 4. Use this number to enter your personal data when taking a measurement.
- 2) Select the Guest mode if you do not want to store your personal data in the unit. When you use the Guest mode you will need to enter your personal data each time you take a measurement.



1. Press the Power Switch to turn the monitor ON. The CAL symbol blinks on the display, then the display changes to 0.0 lb.

Wait until 0.0 lb appears on the display.

2. Lift the Display Unit out of the Display Unit Holder.

NOTE: This monitor can be set to either the US or Metric System. Personal Profile and results will be displayed by selected system. To change the US/Metric mode:

 Press and hold the ▼DOWN button until "lb" and "kg" blink on the display.





- Press the ▼ DOWN button to select the mode, "lb" or "kg". This will automatically change "cm" and "feet/inch" under height setting.
- 3) Press the SET/MODE button to confirm the change.

3. Select a Personal Profile Number or the Guest mode.

A. Personal Profile Number

- 1) Press the USER button to select your personal profile number (1 through 4).
- 2) Press the SET/MODE button.

NOTES:

- If no information has been entered for the Personal Profile Number you selected, the number and the symbols for gender, age and height blink on the display.
- If the personal data has been entered for the number, the Personal Profile Number blinks on the display.

B. Guest mode

Press the GUEST button. The Guest indicator appears.

The default value for age blinks on the display.

4. Enter your Personal Data.

SETTING THE AGE

Set the age between 10 and 80.

1) Press the \triangle UP or \bigtriangledown DOWN button to change the age.





2) Press the SET/MODE button.

The age is set. The gender symbols blink on the display.





SETTING THE GENDER

Set the gender to 🕴 male or 🛔 female.

- 1) Press the \triangle UP or \bigtriangledown DOWN button to change the gender.
- 2) Press the SET/MODE button.

The gender is set. The default value for height blinks on the display.

SETTING THE HEIGHT

Set the height between 3' 4" and 6' 6 3/4". (Display range in metric display mode: 100.0 cm to 199.5 cm)

- 1) Press the \triangle UP or \forall DOWN button to change the height.
- 2) Press the SET/MODE button.

The height is set.







The current settings for age, gender and height appear in this sequence on the display. The 0.0 lb symbol appears on the display. You can now take a measurement using the Personal Profile Number you selected or the Guest mode.

Refer to HOW TO TAKE A MEASUREMENT on pages 22 to 26.

CHANGING PERSONAL DATA

If your personal data changes, the information in the Personal Profile Number you selected must be changed for measurement results to be calculated correctly.

1. Press the Power Switch to turn the monitor ON.

The CAL symbol blinks on the display, then the display changes to 0.0 lb. Wait until 0.0 lb appears on the display.

2. Select the Personal Profile Number you want to change.

- 1) Press the USER button to select your personal profile number (1 through 4). The selected Personal Profile Number flashes once on the display.
- Press the SET/MODE button. The Personal Profile Number is set. The current setting for age blinks on the display.
- 3. Refer to Step 4 on pages 19 and 20 to enter your personal data.



1. Press the Power Switch to turn the monitor ON.

The CAL symbol blinks on the display, then the display changes to 0.0 lb. Wait until 0.0 lb appears on the display.

2. Select the Personal Profile Number you want to delete.

- 1) Press the USER button to select your personal profile number (1 through 4). The selected Personal Profile Number flashes once on the display.
- 2) Press the SET/MODE button. The Personal Profile Number is confirmed and the selected age setting blinks on the display.



3. Press the GUEST button for 2 seconds.

The personal data is deleted. The Clr symbol appears on the display followed by the Personal Profile Number and the symbols for gender, age and height as illustrated below.



4. Refer to Step 3 and 4 on pages 19 and 20 to set the new personal data or press the Power Switch to turn the monitor off.



Your personal data must be entered before taking a measurement.

▲CAUTION:

Persons with disabilities or persons that are physically frail should be assisted by another person when using this monitor or use a handrail, a walker, or other support device to prevent falling when stepping on and off the monitor.



HOW TO MEASURE BODY COMPOSITION

1. Press the Power Switch to turn the monitor ON.

The CAL symbol blinks on the display, then the display changes to 0.0 lb.

Wait until 0.0 lb appears on the display.

NOTES:

- If you step onto the monitor before 0.0 lb appears on the display, an error message "Err" will appear.
- This monitor can be set to either the US or Metric System. Personal Profile and results will be displayed by selected system. To change the US/Metric mode:
- Keep the ▼DOWN button pressed until "lb" and "kg" blink on the display.



 Press the ▼DOWN button to select the mode, "lb" or "kg". This will automatically change "cm" and "feet/inch" under height setting.

VEIGHT

3) Press the SET/MODE button to confirm the change.

2. When the 0.0 lb appears on the display, lift the Display Unit out of the Display Unit Holder.

NOTE: Do not take out the display unit until 0.0 lb appears on the display.



How to Hold the Grip Electrodes



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3. Select a Personal Profile Number or the Guest mode.

A. Personal Profile Number

Press the USER button to select your personal profile number (1 through 4). The Personal Profile Number selected will blink once.



NOTE: If the following appears on the display, no personal data was entered for the number you selected. Refer to SETTING PERSONAL DATA on

pages 19 and 20.



B. Guest mode

- Press the GUEST button while holding the Display Unit.
 "G" will be indicated at the top of the display while "AGE" data flashes.
- 2) Enter your personal data. Refer to SETTING PERSONAL DATA on pages 19 and 20.



4. Start the measurement.

1) Step onto the measurement platform and place your feet on the foot electrodes with your weight evenly distributed.

Remain still and do not move until your weight measurement is complete.



2) When "START" appears on the display extend your arms straight at a 90° angle to your body.



3) When the measurement is completed, your weight is displayed again. Step off the measurement platform.



The indicators in the measurement progress bar at the bottom of the display will gradually appear from left to right, based on the measurement being taken.



5. Press the SET/MODE button to check the measurement results.

The display changes with each press of the SET/MODE button as follows: FAT -> VISCERAL FAT -> BMI -> MUSCLE -> WEIGHT (again)



NOTES:

- The age range for the skeletal muscle percentage and visceral fat level is 18 to 80 years old.
- The age range for the body fat percentage classification is 20 to 79 years old.
- 6. Press the Power Switch to turn the monitor off. Store the Display Unit in the Display Unit Holder.

UNDERSTANDING YOUR MEASUREMENT RESULTS

Interpreting the BMI Result

BMI	BMI (Designation by the WHO)	BMI Classification Bar	BMI Rating
Less than 18.5	- (Underweight)		7.0 - 10.7 10.8 - 14.5 14.6 - 18.4
18.5 or more and less than 25	0 (Normal)		18.5 - 20.5 20.6 - 22.7 22.8 - 24.9
25 or more and less than 30	+ (Overweight)		25.0 - 26.5 26.6 - 28.2 28.3 - 29.9
30 or more	++ (Obese)		30.0 - 34.9 35.0 - 39.9 40.0 - 90.0

Source: Values for obesity judgment proposed by WHO, the World Health Organization.

Interpreting the Body Fat Percentage Result

Gender	Age	Low (–)	Normal (0)	High (+)	Very High (++)
	20-39	< 21.0	21.0 - 32.9	33.0 - 38.9	≥ 39.0
Female	40-59	< 23.0	23.0 - 33.9	34.0 - 39.9	≧ 40.0
	60-79	< 24.0	24.0 - 35.9	36.0 - 41.9	≧ 42.0
	20-39	< 8.0	8.0 - 19.9	20.0 - 24.9	≥ 25.0
Male	40-59	< 11.0	11.0 - 21.9	22.0 - 27.9	≥ 28.0
	60-79	< 13.0	13.0 - 24.9	25.0 - 29.9	≥ 30.0

Source: NIH/WHO guidelines for BMI

Source: Gallagher et al., American Journal of Clinical Nutrition, Vol. 72, Sept. 2000

Interpreting the Skeletal Muscle Percentage Result

Gender	Age	Low (–)	Normal (0)	High (+)	Very High (++)
	18-39	< 24.3	24.3 - 30.3	30.4 - 35.3	≥ 35.4
Female	40-59	< 24.1	24.1 - 30.1	30.2 - 35.1	≥ 35.2
	60-80	< 23.9	23.9 - 29.9	30.0 - 34.9	≥ 35.0
	18-39	< 33.3	33.3 - 39.3	39.4 - 44.0	≥ 44.1
Male	40-59	< 33.1	33.1 - 39.1	39.2 - 43.8	≥ 43.9
	60-80	< 32.9	32.9 - 38.9	39.0 - 43.6	≥ 43.7

Source: Omron Healthcare

Interpreting the Visceral Fat Level Result

No.1 VIBCERALFAT S - I 0 I + I ++ Visceral Fat Level ≤ 9	No.1 VISCERALFAT IO ≤ Visceral Fat Level ≤ 14	VISCERALFAT
0 (Normal)	+ (High)	++ (Very High)

Visceral fat area (0 - approx. 300 cm², 1 inch=2.54 cm) distribution with 30 levels. Source: Omron Healthcare

NOTE: Visceral fat levels are relative and not absolute values.

HOW TO MEASURE WEIGHT ONLY

1. Press the Power Switch to turn the monitor ON.

The CAL symbol blinks on the display, then the display changes to 0.0 lb.

Wait until 0.0 lb appears on the display.

NOTES:

- If you step onto the monitor before 0.0 lb appears on the display, an error message "Err" will appear.
- This monitor can be set to either the US or Metric System. Personal Profile and results will be displayed by selected system. To change the US/Metric mode:
 - Keep the ▼ DOWN button pressed until "lb" and "kg" blink on the display.



- 2) Press the ▼ DOWN button to select the desired measurement unit, "lb" or "kg". This will automatically change "cm" and "feet/inch" under height setting.
- 3) Press the SET/MODE button to confirm the change.

2. Step onto the Measurement Platform.

Stand with your weight evenly distributed on the measurement platform.

Remain still and do not move until the measurement is complete.

3. Check the measurement result.

The display will show your weight and then the weight result will blink twice.





4. Step off the Measurement Platform.

5. Press the Power Switch to turn the monitor off.

ERROR INDICATORS

ERROR DISPLAY	CAUSE	CORRECTION
{rr	Your palms or feet are not positioned over the electrodes correctly.	Make sure you are barefoot. Make sure your palms or the soles of your feet are clean and dry. Make sure your palms or feet are correctly positioned. Refer to CORRECT POSTURE FOR MEASUREMENT on page 22 and How to Hold the Grip Electrodes on page 23.
{,}	The measurement position was not stable. Your palms or feet were not placed correctly.	Remain still and do not move until the measurement is complete. Refer to CORRECT POSTURE FOR MEASUREMENT on page 22 and How to Hold the Grip Electrodes on page 23.
{rr}	Your palms or feet are too dry.	Slightly moisten your palms or the soles of your feet with a damp towel and retake the measurement.
{rr¥	The Body Composition values are outside the measurement range.	 Check the settings entered for your personal data. Change the settings if needed. Retake the measurement. The main unit cannot measure body composition outside its measurement range, even if the age, gender and height settings are correct. Refer to Display and Set Ranges on page 34.
{rr}	The monitor is not set up correctly.	Remove the batteries. Wait one minute. Reinstall the batteries. Refer to BATTERY INSTALLATION on page 16. Press the Power Switch and turn the monitor on. Retake the measurement.
	You stepped onto the measurement platform before 0.0 lb was displayed.	Wait until 0.0 lb is displayed before stepping onto the measurement platform.
{rr	The monitor was moved before 0.0 lb was displayed.	Do not move the monitor until 0.0 lb is displayed.
	Movement during measurement.	Do not move until measurement is complete.
	Monitor detected weight over 330.0 lb.	This monitor can only be used by people weighing less than 330.0 lb.

TROUBLESHOOTING TIPS

PROBLEM	CAUSE AND SOLUTION
Low Battery Indicator No power No display appears on the unit	Check the battery installation for proper placement of the battery polarities. Replace all four worn batteries.
The weight value is displayed abnormally low or high.	Place the monitor on a hard and level floor.
The Body Composition value is displayed abnormally low or high.	Refer to RECOMMENDED MEASUREMENT TIMES on pages 11 and 12. Check the settings entered for your personal data.
Other conditions	Remove the batteries. Wait one minute. Reinstall the batteries. Refer to BATTERY INSTALLATION on page 16.

CARE AND MAINTENANCE

To keep your Full Body Sensor Body Composition Monitor and Scale in the best condition and protect the monitor from damage follow the directions below:

Clean the monitor with a soft dry cloth. Do not use abrasive or volatile cleaners. The monitor is not waterproof.

Store the monitor in a safe and dry location. Do not expose the monitor to direct sunlight, extreme hot or cold temperatures or humidity. Thoroughly dry any moisture off the monitor before storing.

▲CAUTION:

Do not submerge the device or any of the components in water.

▲CAUTION:

Do not subject the monitor to strong shocks, such as dropping the unit on the floor.

Remove the batteries if the monitor will not be used for three months or longer.

Store the Display Unit in the Main Unit as shown in the figure.

As you place the lower portion of the Display Unit, it clicks and fits into the Display Unit Holder.



Do not crease the cord when storing in the Display Unit Holder.

Use the monitor consistent with the instruction provided in this manual.

▲CAUTION:

Do not disassemble or modify the unit. Changes or modifications not approved by Omron Healthcare will void the user warranty.

FCC STATEMENT

NOTE:

POTENTIAL FOR RADIO/TELEVISION INTERFERENCE (for U.S.A. only)

This product 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. The product 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 the product does cause harmful interference to radio or television reception, which can be determined by turning the product on and off, 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 product and the receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

POTENTIAL FOR RADIO/TELEVISION INTERFERENCE (for Canada only)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Canadian Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", ICES-003 édictée par le ministère des communications.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARRANTY

Limited Warranty

Your HBF-510 Full Body Sensor Body Composition Monitor and Scale, excluding the batteries, is warranted to be free from defects in materials and workmanship appearing within 1 year from the date of purchase, when used in accordance with the instructions provided with the unit. The above warranties extend only to the original retail purchaser.

We will, at our option, repair or replace without charge any monitor covered by the above warranties. Repair or replacement is our only responsibility and your only remedy under the above warranties. To obtain warranty service contact Omron Healthcare's Customer Service by calling 1-800-634-4350 for the address of the repair location and the return shipping and handling fee. Information for warranty service is available on our website at www.omronhealthcare.com.

Enclose the Proof of Purchase. Include a letter, with your name, address, phone number, and description of the specific problem. Pack the product carefully to prevent damage in transit. Because of possible loss in transit, we recommend insuring the product with return receipt requested.

ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THE APPLICABLE WRITTEN WARRANTY ABOVE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

OMRON SHALL NOT BE LIABLE FOR LOSS OF USE OR ANY OTHER INCIDENTAL, CONSEQUENTIAL OR INDIRECT COSTS, EXPENSES OR DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

FOR CUSTOMER SERVICE

Visit our web site at: Call toll free: www.omronhealthcare.com 1-800-634-4350

SPECIFICATIONS

Model	OMRON Full Body Sensor Body Composition Monitor and Scale - HBF-510	
Display	Body Weight: 0 to 330 lb with 0.2 lb increments (0 to 150 kg with 0.1 kg increments) Body fat percentage: 5.0 to 60.0% with 0.1% increments	
	Skeletal muscle percentage: 5.0 to 50.0% with 0.1% increments	
	BMI: 7.0 to 90.0 with 0.1 increments	
	Visceral fat level: 30 levels with 1 level increments	
	BMI classification:	
	– (Underweight) / 0 (Normal) / + (Overweight) / ++ (Obese) with 12 levels of Bar display Body fat percentage and Skeletal muscle percentage classification:	
	- (Low) / 0 (Normal) / + (High) / ++ (Very High) with 12 levels of Bar display	
	Visceral fat classification:	
	* The age range for the choletal muscle percentage and viscoral fat level is 18	
	to 80 years old	
	* The age range for the body fat percentage classification is 20 to 79 years old.	
Set Ranges	Height: 3' 4" to 6' 6 3/4" (100.0 to 199.5 cm)	
	Age: 10 to 80 years old	
	Gender: Male/Female	
Power Supply	4 AA batteries	
Battery Life	Approximately 1 year (when used four times a day)	
Operating Temperature /Humidity	+50°F to +104°F (+10°C to +40°C), 30 to 85% RH	
Storage Temperature /Humidity/Air Pressure	–4°F to +140°F (–20°C to +60°C), 10 to 95% RH, 700 - 1060 hPa	
External Dimensions	Display Unit: Approximately 11 3/4" (W) x 1 3/8" (H) x 5 3/4" (D) Main Unit: Approximately 11 7/8" (W) x 2 1/8" (H) x 12 7/8" (D)	
Weight	Approximately 4 5/8 lb (including batteries)	
Contents	Monitor/Scale, 4 AA Batteries, Instruction Manual, Measurement Log Sheet	
UPC Code	0 73796 26510 6	

NOTE: Specifications are subject to change without prior notice.

NOTES

Distributed by:

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