

InBody770

User's Manual **USA**

Intended Use

The device should be used as an adjunct for clinical decision making and is not intended to diagnose or treat any diseases.

InBody User's Manual for Measurement Guide and Setup

Thank you for purchasing the InBody.

This user's manual describes all the features of the InBody.

Please read before use and keep it in a safe place.

By following the manual instructions, you will be able to use the InBody more safely and effectively.

Please note the important information below before reading this manual.



Warning

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



Caution

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



Avertissement

Le non-respect des consignes de sécurité et des règlements peut causer des blessures graves ou la mort.



Attention

Le non-respect des consignes de sécurité et des règlements peut causer des blessures ou des dommages matériels.

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InBody770

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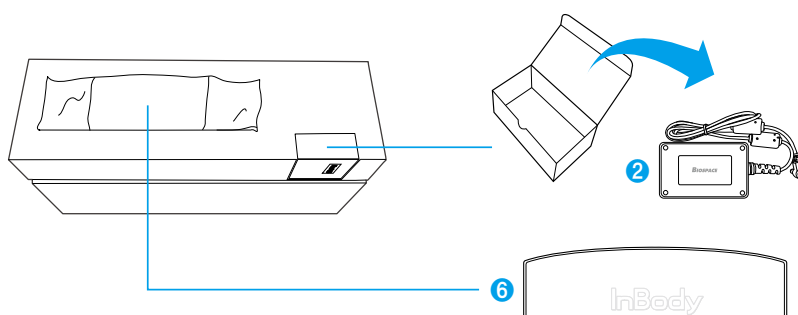
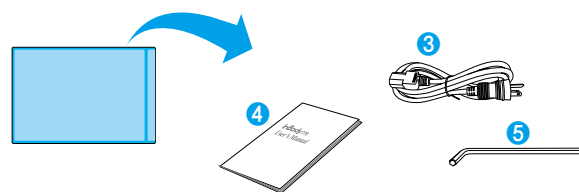
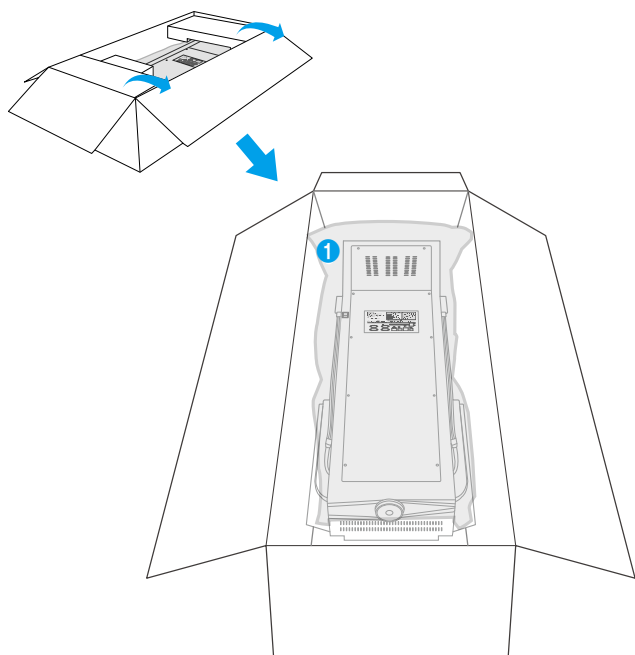
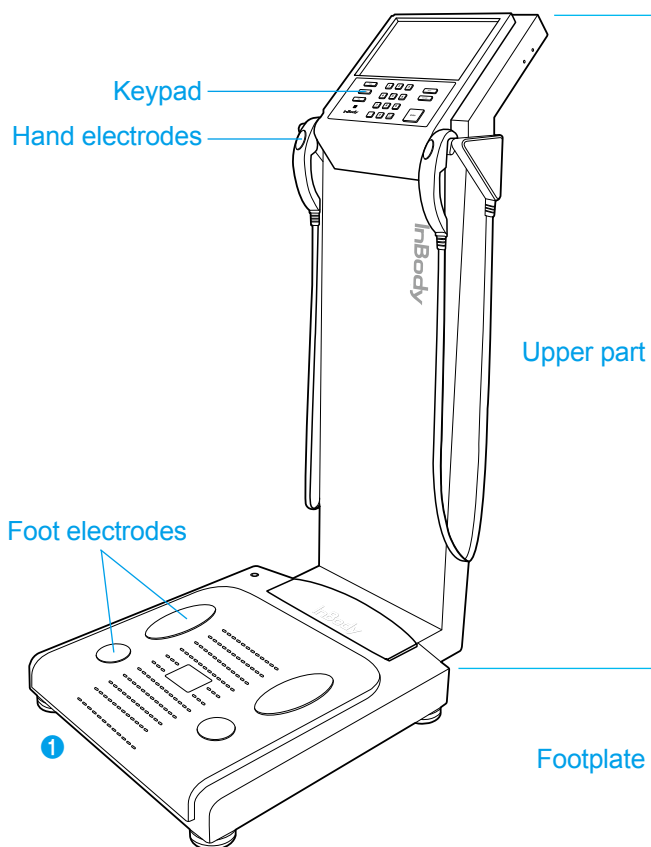
I. InBody770 Installation

A. Product Components

The InBody770 consists of the following components. Please make sure all of the following components are present.

* Please inspect each component of the InBody770 for defects prior to installation.

- ❶ InBody770
- ❷ Adapter (DC 12V, 3.4A/3.34A) 1 EA
- ❸ Power cord 1 EA
- ❹ User's Manual 1EA
- ❺ Hexagonal Wrench
- ❻ Hinge Cover



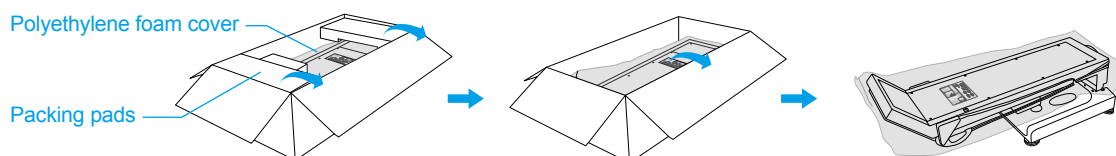
B. Operating Environment

Please make sure that the environment is adequate for the InBody770 installation. This equipment is designed for indoor use. If installing outdoors, the following requirements must be fulfilled.

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

C. Installation Instructions

1. Open the packing box of the InBody770 and remove the packing pads. Then take the InBody770 out of the box.



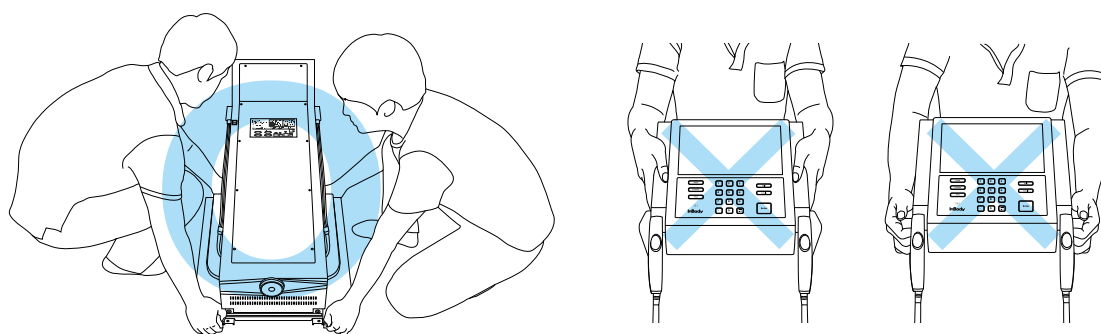
! Caution

- If you have any problems installing your InBody770, please contact InBody for assistance.
- Do not transport the equipment by holding the screen portion or the joints of the hand electrodes.
- Keep the packing materials provided for repacking the equipment in the future. Other wastes should be disposed of according to relevant laws and regulations.

! Attention

- *Si vous avez des problèmes lors de l'installation de votre InBody770, veuillez contacter InBody pour obtenir de l'aide.*
- *Ne transportez pas l'équipement en tenant l'écran ou les articulations des électrodes à main.*
- *Conservez les matériaux d'emballage fournis pour remballer l'équipement si nécessaire. Éliminer les autres déchets conformément aux lois et règlements pertinents.*

* Please refer to the following illustrations to properly transport the equipment.



! Caution

- Using the InBody770 on carpet may cause static electricity, which could damage the equipment. If installing the InBody770 on carpet is unavoidable, please use an antistatic mat.
- Install the InBody770 on a leveled, non-vibrating surface. Installing the equipment on an uneven surface may cause the examinee to fall down. Test results may also be inaccurate.
- Never clean the hand and foot electrodes with liquid spray or detergent directly. The equipment may corrode and/or malfunction if the liquid or detergent leaks inside. Use the InBody Tissue when cleaning the InBody770.

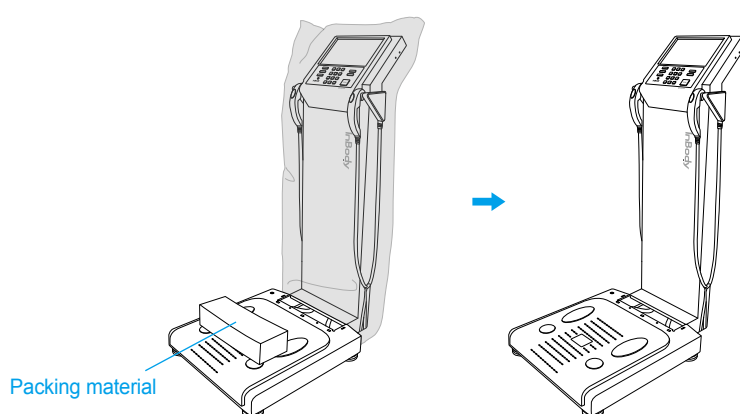
* For inquiries regarding the InBody Tissue, please contact InBody.

Attention

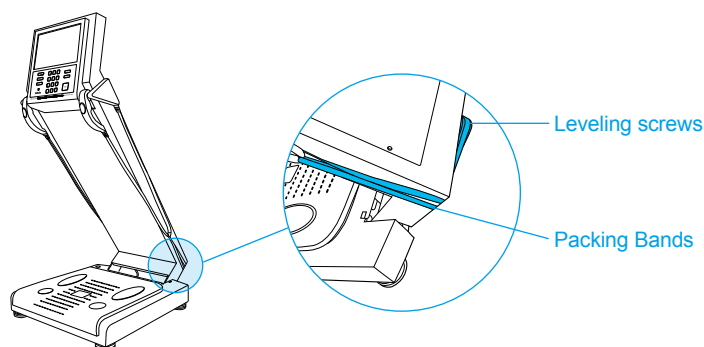
- Utiliser l'InBody770 sur un tapis peut générer de l'électricité statique, ce qui pourrait l'endommager. Si vous devez installer l'InBody770 sur un tapis, veuillez utiliser un tapis antistatique.
- Installer l'InBody770 sur une surface nivelée, non vibrante. L'installation de l'équipement sur une surface inégale peut provoquer la chute du candidat. Les résultats du test peuvent aussi être inexacts.
- Ne nettoyez jamais les électrodes de pieds et de mains directement avec un pulvérisateur de liquide ou un détergent. L'équipement peut se corroder et/ou mal fonctionner s'il présente des fuites de liquide ou de détergent. Utilisez l'InBody Tissue lors du nettoyage de l'InBody770.

* Pour des informations au sujet de l'InBody Tissue, veuillez contacter InBody.

2. After completely raising the upper part of the InBody770, remove the polyethylene foam cover. Then remove the packing material from the footplate.



3. Slightly lower the upper part of the InBody770 and remove the packing bands, which are used to connect the leveling screws and the hand electrode cables.



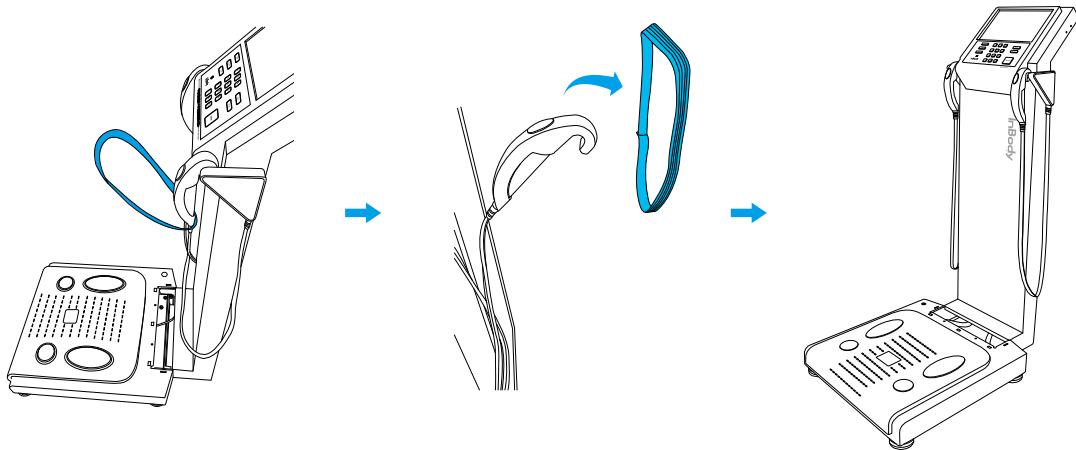
Caution

- Do not use a knife or scissors to remove the packing bands. Keep packing bands for repacking the InBody in the future.

Attention

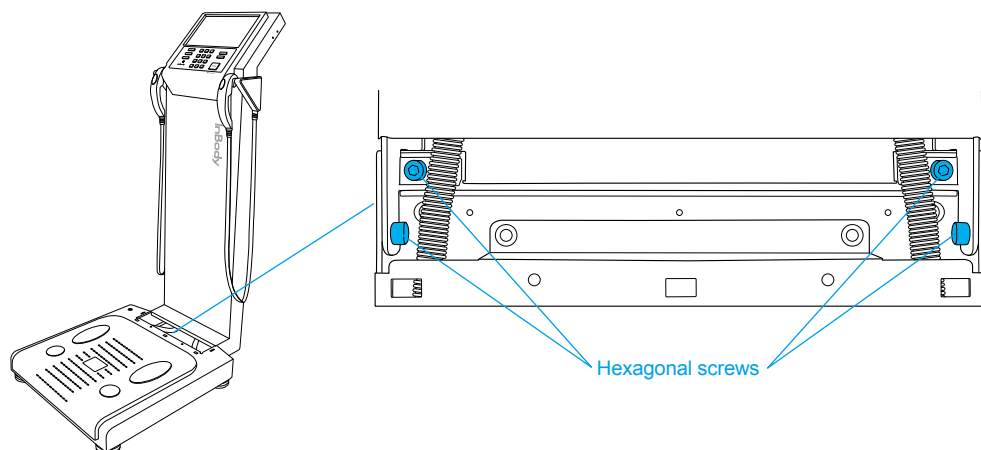
- N'utilisez pas de couteau ou de ciseaux pour retirer les matériaux d'emballage. Conservez les matériaux d'emballage fournis, pour le reconditionnement éventuel de l'InBody.

4. Please refer to the following illustrations to remove the Packing Bands from both hand electrode cables.

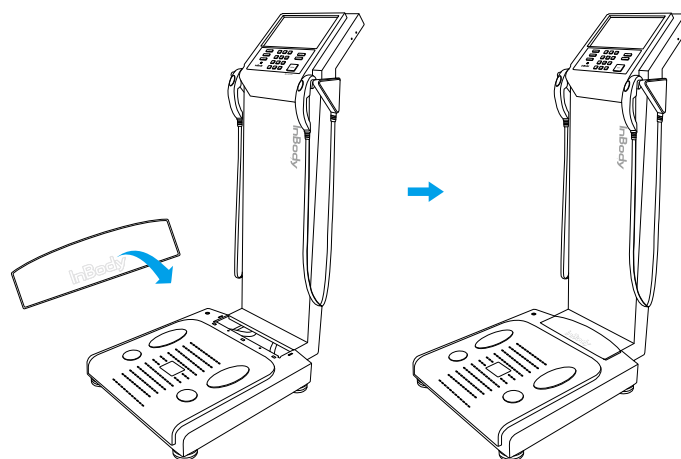


5. Completely raise the upper part of the InBody770.

6. Tighten the hexagonal screws, on the InBody770 joint, by rotating the Hexagonal Wrench clockwise.

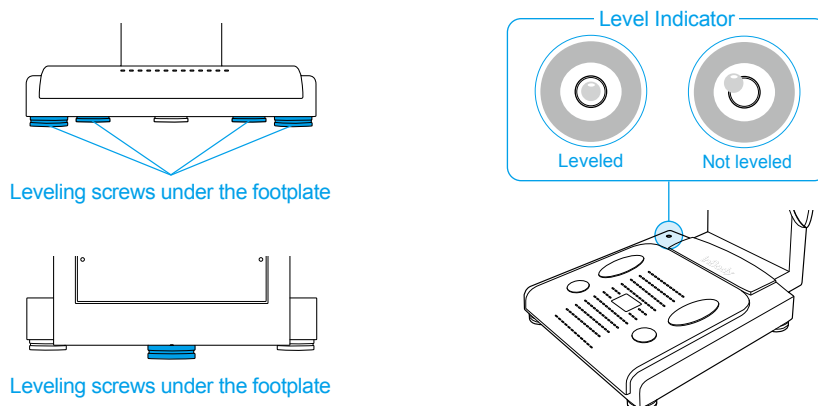


7. Please refer to the following illustrations to insert the Hinge Cover.



8. Level the InBody770 by rotating the leveling screws under the footplate to the left and right so that the air bubble is centered.

* Leveling the equipment is necessary for accurate measurement of weight. There are a total of 5 leveling screws.



Caution

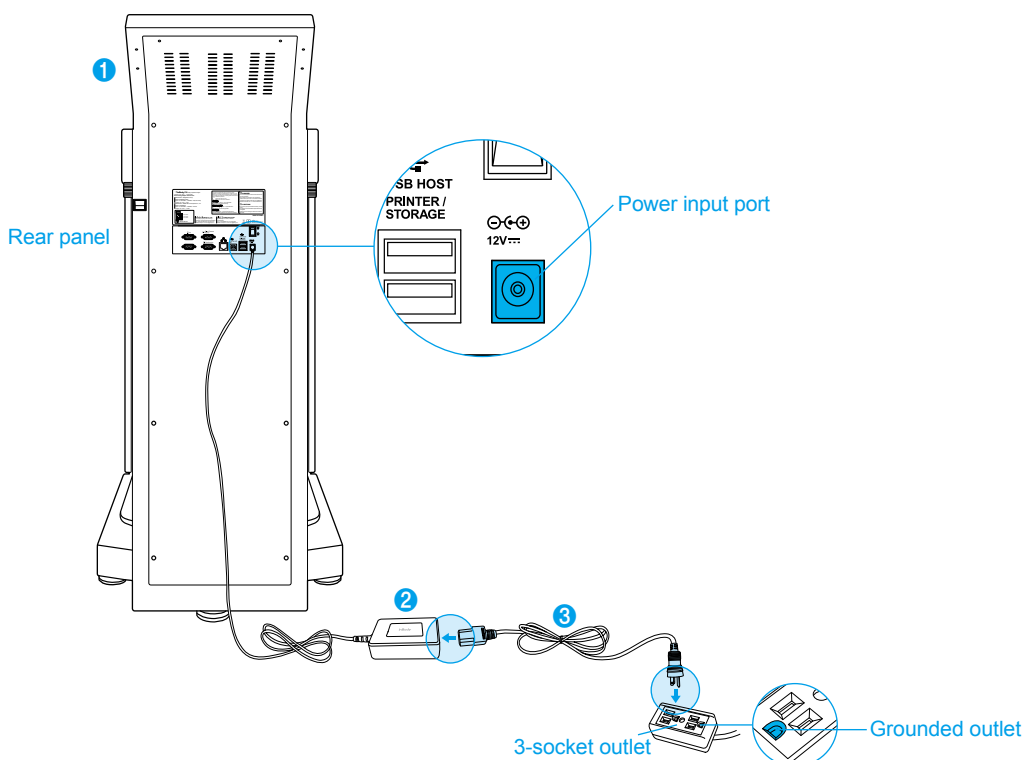
- Avoid injuring your hands when rotating the leveling screws under the footplate.

Attention

- *Faites attention de ne pas vous blesser aux mains lorsque vous serrez les vis de réglage sous le repose-pieds.*

9. Connect the adapter (2) to the power input port, which is located on the rear panel (1). Connect the adapter (2) to the power cord (3). Plug the power cord (3) into a grounded 3-socket outlet.

* The InBody770 can be used in connection with other test equipment such as a stadiometer, a blood pressure monitor, or data management software called LookinBody120. For more information, please refer to 'A. Exterior and Functions 3. Rear Panel' in section 'V. Others' in this User's Manual.



Warning

- Do not pull the power cord violently.
- Do not place the InBody770 in a location making it difficult to disconnect the power cord.
- Do not plug in or pull out the power cord with wet hands. There is a risk of an electric shock.
- Always use an outlet connected to the rated power (AC 100 - 240 V). Using other power rated outlets may result in fire or malfunction.
- When using a power surge protector, make sure that the outlet or the extension cable has adequate power capacity.
- Do not disassemble or modify the equipment including internal parts without written consent from the manufacturer. This may cause electric shock or injury, product malfunction, inaccurate results, and will void the manufacturers warranty. If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of equipment.
- Do not directly contact the InBody770 with any other electronic device when the InBody770 is on. This may result in an electric shock.
- If you are not using the InBody770 for a long time, unplug the power code.

Avertissement

- *Ne tirez pas violemment sur le cordon d'alimentation.*
- *Ne placez pas l'InBody770 dans un endroit où il serait difficile de débrancher le cordon d'alimentation.*
- *Ne branchez ou débranchez jamais le cordon d'alimentation avec les mains mouillées. Il y a risque de choc électrique.*
- *Utilisez toujours une prise connectée à l'alimentation (CA 100 - 240 V). L'utilisation de prises avec différentes puissances nominales peut entraîner un incendie ou un mauvais fonctionnement.*
- *Lorsque vous utilisez un protecteur contre les surtensions, assurez-vous que la prise ou le câble d'extension ait une capacité électrique suffisante.*
- *N'essayez pas de démonter ou de modifier l'équipement, y compris les pièces internes, sans le consentement écrit du fabricant. Cela peut entraîner un choc électrique ou une blessure, un mauvais fonctionnement du produit, des résultats inexacts et annulera la garantie du fabriquant. Si cet équipement est modifié, des contrôles appropriés et des tests doivent être effectués pour assurer l'utilisation continue et sécuritaire de l'équipement.*
- *Ne connectez pas directement l'InBody770 avec un autre appareil électronique lorsque l'InBody770 est allumé. Cela peut provoquer un choc électrique.*
- *Si vous n'utilisez pas le InBody770 pendant une longue période, débranchez le cordon d'alimentation.*

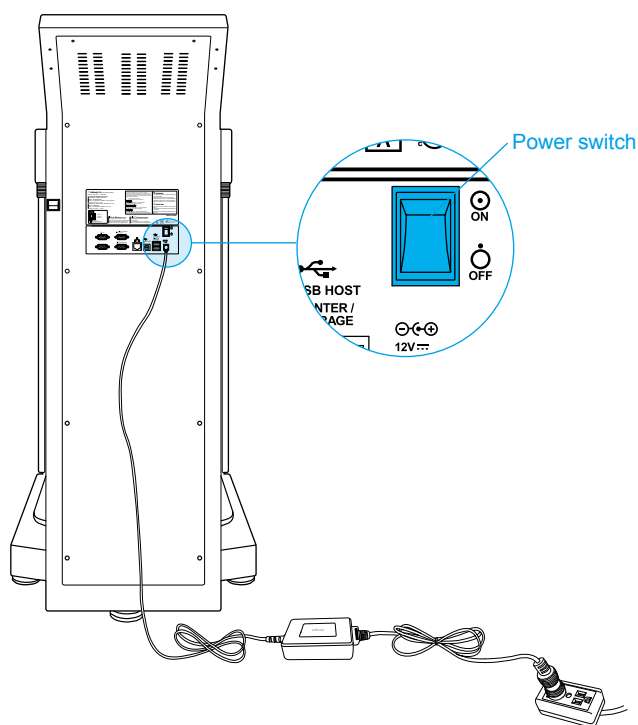
Caution

- If the InBody770 is not plugged into a grounded outlet, it may cause damage through electric surges or product malfunction. This may affect the test results.
- The test results may be inaccurate if the InBody770 is under electrical interference. Do not install the InBody770 near products that generate electrical interference such as fluorescent lights, large AC motor equipment(treadmill, vibration plate, refrigerator, air-conditioner, compressor, etc.), high-frequency thermal therapy equipments, or heating appliances. Do not share the power source of the InBody770 with other electrical devices. This may affect the test results.
- When connecting the InBody770 with other test equipment, turn on the other equipment first. When turning off other equipment, turn off the InBody770 first. This is necessary to minimize electrical surges on the InBody770.
- Always use the specified adapter provided by InBody as it is a part of the InBody770. Using other adapters may result in malfunction of the InBody770.
- Operation of the InBody770 6,500 feet above sea level may affect the weight measurement.

Attention

- Si l'InBody770 n'est pas branché à une prise de terre, cela peut causer des dommages par le biais de surtensions électriques ou de mauvais fonctionnement. Cela peut affecter les résultats du test.
- Les résultats du test peuvent être imprécis, si l'InBody770 est soumis à des interférences électriques. N'installez pas l'InBody770 près d'équipements qui génèrent des interférences électriques, tels que les lampes fluorescentes, les gros équipements à moteur CA (tapis roulant, plaque vibrante, réfrigérateur, climatiseur, compresseur, etc.), équipements de thérapie thermique à haute fréquence, ou appareils de chauffage. Ne partagez pas la source d'alimentation de l'InBody770 avec d'autres appareils électriques. Cela peut affecter les résultats du test.
- Lors de la connexion de l'InBody770 avec d'autres équipements, allumez d'abord les autres équipements. Lorsque vous éteignez l'équipement, éteignez d'abord l'InBody770. Ceci est nécessaire afin de réduire les risques de surtensions électriques sur l'InBody770.
- Utilisez toujours l'adaptateur fourni par InBody, puisque c'est une pièce de l'InBody770. L'utilisation d'autres adaptateurs peut entraîner la défaillance de l'InBody770.
- Le fonctionnement de l'InBody770, à 2 000 m au-dessus du niveau de la mer peut affecter la mesure du poids.

10. Flip the power switch to turn on the InBody770.



Caution

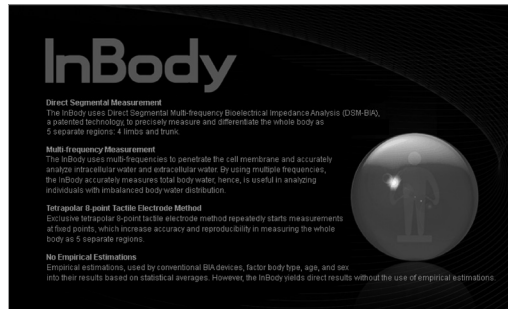
- Adapter must be arranged so that easily cut off the power when a problem occurs in the InBody770.

Attention

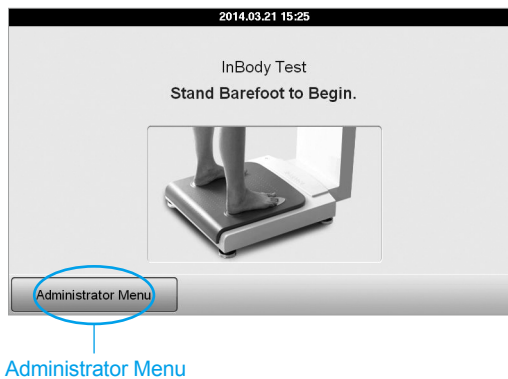
- L'adaptateur doit être placé de telle sorte qu'il soit facile de couper l'alimentation, lorsqu'un problème survient dans l'InBody770.

D. Required Settings

1. The InBody770 automatically starts booting when it is turned on. While booting, it performs a self weight calibration.
 - * While booting (about 5 minutes), make sure there is nothing on top of the footplate. Please do not stand on the footplate, or place objects on the footplate.



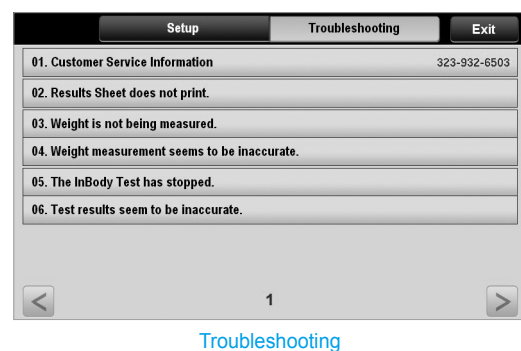
2. Press the [Administrator Menu] button on the screen, which appears when no one is on the footplate.



3. Input the password (default password: 0000) to have access the Administrator Menu.



4. The Administrator Menu will give you access to 'Setup' and 'Troubleshooting'.



- 1) Setup: Configure settings and manage data according to the test environment.
 01. Date/Time/Units/Password/Volume
: Change or modify the InBody's basic settings.
 02. Self Mode/Professional Mode
 - Self Mode: The examinee takes the InBody Test by entering only his/her height.
Throughout the test, instructions and the InBody Information will be shown on screen.
 - Professional Mode: An examiner is present and guiding the examinee through the InBody Test.
 03. N/A
 04. Cloud Service
: InBody App provides services that allow members to check and manage results themselves. If you enter your mobile phone number, you can check the results on the member's mobile phone as the InBody results are transmitted to InBody Cloud.
 05. Bypass Age/Sex
: The examinees can bypass inputting their age or sex if the test environment is designed for testing only adults or a specific sex.
* 'M/F' refers to biological sex of the user, male or female.
 06. View/Print/Delete Data
: The administrator can manage test results using ID or mobile phone number.
 07. Export Data as Excel
: You can export test results as an excel file on a USB Thumb Drive. Exported test results can be viewed as an excel file on a computer.
 08. Data Backup/Restoration
: Back up InBody Test results to a USB Thumb Drive or restore test results using a backup file on a USB Thumb Drive.
 09. Printer Setup
: Connect the printer to the InBody. A connected printer will allow for printing results sheets after testing.
 10. Results Sheet Types
: Select which results sheets to utilize with the InBody770.
(InBody Results Sheet and Body Water Results Sheet).
 11. Automatic Printing Options
: Print applicable results sheets automatically after each completed test. The InBody can print up to 2 copies after every test.
 12. N/A
 13. Outputs/Interpretations for Results Sheet
: Select outputs or interpretations that will appear on the right side of the InBody Results Sheet and Body Water Results Sheet.

14. Results Sheet Custom Logo

: Insert a logo on upper right corner of the printed results sheet.

* Please contact InBody for help with uploading or modifying a logo.

15. Printing Alignment

: Adjust the alignment of where the results will be printed on the results sheets.

16. Internet Options

: You can connect the InBody to the Internet. When InBody is connected to the internet, can connect to data management software LookinBody120, regardless of location.

17. N/A

18. Manual/Automatic Weight

: Select whether to have weight automatically weighed or manually entered before testing.

19. Adjust Weight

: Adjust measured weight by a fixed value on the InBody. (Example: Workout clothes at the gym are approximately 0.44lb; most examinees are assumed to be wearing workout clothes, so the examiner may adjust the set value to -0.44lb.)

20. Reference Range

: Set the reference range for BMI and Percent Body Fat.

* The ideal value for BMI may also be set.

21. N/A

22. N/A

23. Touchscreen Alignment

: Adjust the alignment of the touchscreen.

24. Customer Service Information

: View the contact information for InBody AMERICA. Please contact InBody if you have any inquiries regarding the InBody Test, or problems that cannot be resolved through the 'Troubleshooting' menu.

25. Auto-Lock

: Set the password and wait time for auto-lock on the InBody770

2) Troubleshooting: See additional information on how to use the InBody. Refer to the troubleshooting checklist when there are problems that occur during the InBody use/test.

01. Customer Service Information

: See the contact information of InBody. Please contact InBody if your problem cannot be resolved through the 'Troubleshooting' or if you have further inquiries regarding the InBody Test.

02. Results Sheet does not print.

: View the troubleshooting checklist when the Results Sheet does not print by the printer connected to the InBody.

03. Weight is not being measured.

: View the troubleshooting checklist when weight is not being measured, after stepping on to the InBody footplate.

04. Weight measurement seems to be inaccurate.

: View the troubleshooting checklist when the weight measurement seems to be inaccurate.

05. The InBody Test has stopped.

: View the troubleshooting checklist when the InBody Test has stopped.

06. Test results seem to be inaccurate.

: View the troubleshooting checklist when the test results seem to be inaccurate.

E. Connecting Compatible Device

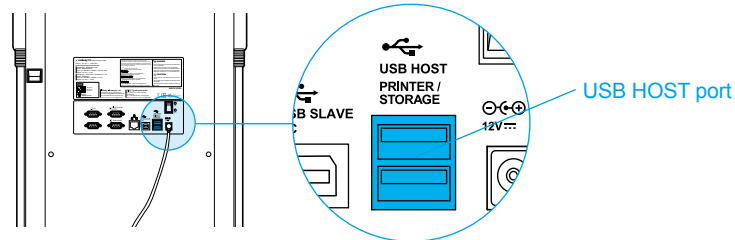
1. Printer

In order to print InBody Results Sheets, an InBody770 compatible printer is required.

1) First turn off the InBody770 and then the printer.

*You may experience connection issues in connecting the printer to the InBody770 if the InBody is turned on.

2) Plug the USB cable provided with the printer into the USB HOST port on the rear panel of the InBody770 and plug the other end of the USB cable into the printer.



3) Turn on the printer.

4) Turn on the InBody770 and setup your printer under Setup of the Administrator Menu '09. Printer Setup'.

5) You can edit your printing settings under Setup of the Administrator Menu from '11. Automatic Printing Options' through '15. Printing Alignment'.

2. Stadiometer

If a stadiometer is connected to the InBody770, the height values measured by the stadiometer will be sent directly to the InBody770.

* Always connect the stadiometer from InBody.

To connect the stadiometer to the InBody770, confirm the connection type.

There are two connection types to connect the stadiometer: 9-pin Serial port (Female, RS-232C).

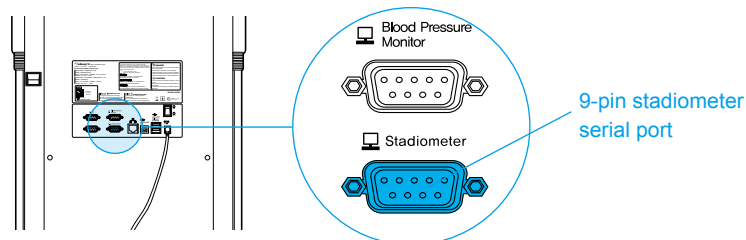
* Connection methods would vary depending on the stadiometer models.

1) 9-pin Serial port (Female, RS-232C)

❶ First turn off the InBody770 and then the stadiometer.

* You may experience connection issues in connecting the stadiometer to the InBody770 if the InBody is turned on.

❷ Plug the serial cable provided with the stadiometer to the 9-pin stadiometer serial port on the rear panel of the InBody770.



❸ Turn on the stadiometer.

❹ Turn on the InBody770. If the stadiometer is connected to the InBody770, the stadiometer icon(**1**) will appear on the top left corner of the screen when no one is on the footplate.

3. Blood Pressure Monitor

If a blood pressure monitor is connected to the InBody770, the blood pressure values measured by the blood pressure monitor will be sent directly to the InBody770.

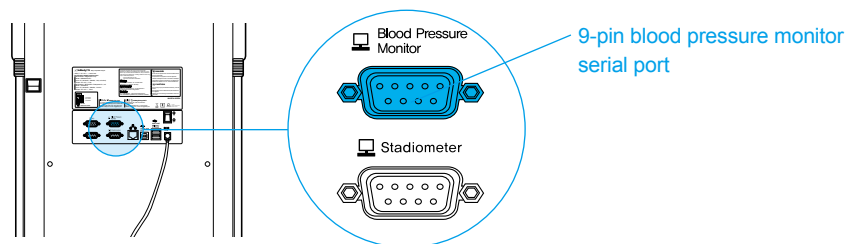
* Always connect a blood pressure monitor from InBody.

* If you select to print blood pressure measurements under Setup of the Administrator Menu '13. Outputs/Interpretations for Results Sheet', the blood pressure measurements will be printed on the InBody Results Sheet.

1) First turn off the InBody770 and then the blood pressure monitor.

* You may experience connection issues in connecting the blood pressure monitor to the InBody770 if the InBody is turned on.

2) Plug the serial cable provided with the blood pressure monitor to the 9-pin blood pressure monitor serial port on the rear panel of the InBody770.



3) Turn on the blood pressure monitor.

4) Turn on the InBody770. If the blood pressure monitor is connected to the InBody770, the blood pressure monitor icon () will appear on the top left corner of the screen when no one is on the footplate.

F. Maintenance



Caution

- Place the hand electrodes on the hand electrode holder to prevent the electrodes from falling down. Dropped hand electrodes may cause malfunctions.
- Do not place any objects on the footplate.
- Do not apply excessive force on the equipment.
- Turn off the equipment if you are not using it for a day or longer.
- Do not allow any liquid substances to contact the equipment directly. Keep food and drinks away from the equipment. Substances getting inside the equipment can cause critical damage to the electronic components.
- Use a lint-free cloth to gently wipe the external surface of the equipment about once every week. Be careful not to scratch the LCD screen.
- InBody770 does not need regular maintenance. If some problems occur while operating the device, get in touch with the store where you purchased it or A/S manager. We do not take the responsibility about problems caused by any arbitrary repairs.



Attention

- *Placez les électrodes manuelles sur le porte électrode manuel pour empêcher les électrodes de tomber.. Si les électrodes manuelles tombe à terre, ils peut entraîner un mauvais fonctionnement.*
- *Ne placez pas d'objets sur le repose-pieds.*
- *N'exercez pas de force excessive sur l'équipement.*
- *Éteignez l'équipement si vous ne l'utilisez pas pendant un jour ou plus.*
- *Ne laissez pas de substances liquides rentrer en contact directe avec les équipements. Éloignez les aliments et les boissons de l'équipement. Les substances qui pénètrent à l'intérieur de l'équipement peuvent entraîner des dommages sur les composants électroniques.*
- *Utilisez un chiffon non pelucheux pour nettoyez légèrement la surface externe de l'équipement, environ une fois par semaine. Veillez à ne pas rayer l'écran à cristaux liquides.*
- *InBody770 ne nécessite pas d'entretien régulier. Si des problèmes surviennent pendant le fonctionnement de l'appareil, rentrez en contact avec le magasin où vous l'avez acheté, ou le gestionnaire A/S. Nous ne sommes pas responsables des problèmes occasionnés par des réparations arbitraires.*

II. InBody Test

A. Precautionary Step

Warning

- Individuals with medical implant devices such as pacemakers, or essential support devices such as patient monitoring systems, must not use this equipment. Safe, low-level currents will flow through the body during the test, which may cause malfunctioning of the device or endanger lives.
- Children and people with limited mobility should be supervised or assisted when attempting to test on the InBody.
- After an individual with any kind of contagious disease or infection tests on the InBody, use an InBody Tissue to clean the equipment.
- Do not support yourself on the device when stepping up or down from the footplate.
- Please be careful not to trip or get your foot caught in the footplate.

Avertissement

- *Toute personne qui a un implant médical tel un stimulateur cardiaque ou un dispositif d'assistance essentiel comme appareil médical de surveillance ne doit pas utiliser cet équipement. Des courants sécurisés et à de faibles niveaux traverseront le corps pendant le test et cela peut provoquer un mauvais fonctionnement de l'appareil ou mettre des vies en danger.*
- *Les enfants et les personnes à mobilité réduite doivent être supervisés ou assistés, lorsqu'ils essaient de faire le test sur l'InBody.*
- *Après qu'un individu affligé d'une maladie contagieuse ou d'une infection ait effectué le test sur l'InBody, utilisez un InBody Tissue pour nettoyer les équipements.*
- *Ne vous appuyez pas sur l'équipement lorsque vous montez ou descendez de la plateforme.*
- *Attention à ne pas trébucher ou à vous coincer un pied sur le côté de la plateforme.*

Caution

- Stand upright for about 5 minutes before testing. Taking the test immediately after lying in bed or sitting for a long period of time might result in a slight change in the test results. This is because body water tends to move to the lower body as soon as the person stands or gets up.
- Do not eat before testing. In cases where the examinee has already eaten, the test should be put off for at least two hours after the meal. This is because food mass is included in the examinee's weight and thus, may result in measurement errors.
- Use the bathroom before testing. Waste is not included in the body's compositional elements, but the volume of urine and excrement is included in the weight measurement affecting accuracy of the test results.
- Do not exercise before testing. Strenuous exercise or sharp movements can cause temporary changes in body composition. Even light exercise can change your body composition temporarily.
- Take the test in the morning, if possible. Body water tends to gravitate towards the lower body throughout the day, affecting accuracy of the test results.
- Thoroughly wipe the palms and soles with the InBody Tissue before testing. Testing may be difficult if the examinee's palms and soles are too dry or if the examinee has too many calluses.
 - * For inquiries regarding the InBody Tissue, please contact InBody.
- Avoid contact with the examinee during testing. Contact may lead to interference affecting test results.

 Attention

- *Tenez-vous debout pendant environ 5 minutes avant le test. Effectuer le test immédiatement après avoir été allongé dans un lit ou avoir été assis pendant une longue période peut causer un léger changement dans les résultats du test car les liquides corporels ont tendance à se déplacer vers la partie inférieure du corps lorsque la personne est debout ou se lève.*
- *Ne pas manger avant le test. Dans les cas où le candidat a déjà mangé, le test doit être reporté à au moins deux heures après le repas. Cela est nécessaire car la masse alimentaire est incluse dans le poids du candidat et ainsi, peut entraîner des erreurs de mesure.*
- *Allez aux toilettes avant d'effectuer le test. Les déchets organiques ne sont pas inclus dans les éléments de composition du corps, mais le volume d'urine et d'excréments est inclus dans la mesure du poids. Cela affecte la précision des résultats du test.*
- *Ne faites pas de sport avant le test. Des exercices intensifs ou des mouvements brusques peuvent provoquer des changements temporaires de la composition corporelle. Même de légers exercices peuvent temporairement changer votre composition corporelle.*
- *Faites le test le matin, si cela est possible. Les liquides corporels tendent à graviter vers la partie inférieure du corps tout au long de la journée, affectant la précision des résultats.*
- *Avant le test, bien essuyer la paume des mains et la plante des pieds avec l'InBody Tissue. Effectuer le test peut être difficile si les paumes et les plantes du candidat sont trop sèches ou si le candidat a trop de callosités.*
** Pour des informations au sujet de l'InBody Tissue, veuillez contacter InBody.*
- *Évitez tout contact avec le candidat lors du test. Ce contact peut entraîner des interférences qui pourraient modifier les résultats du test.*

B. Test Instructions

1. Step on the footplate when the screen below is shown.

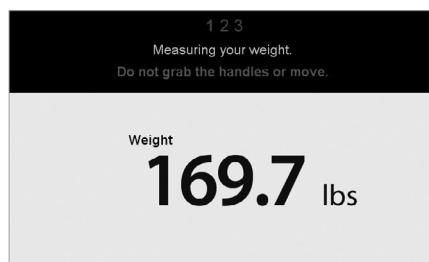
* The screens vary according to the Setup of the Administrator Menu '02. Self Mode/Professional Mode'.

Professional Mode: An examiner is present and guiding the examinee through the InBody Test.

Self Mode: The examinee takes the InBody Test following the instructions that are displayed on screen.

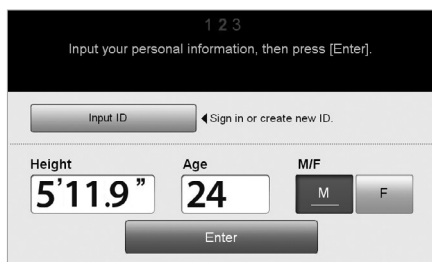


2. Weight measurement begins.



3. Input personal information.

* Input height only if using Self Mode.



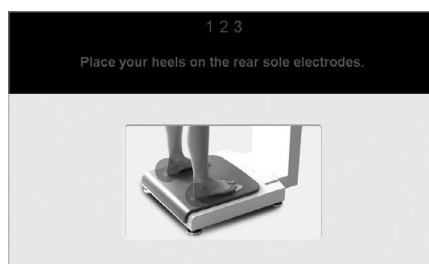
Professional Mode



Self Mode

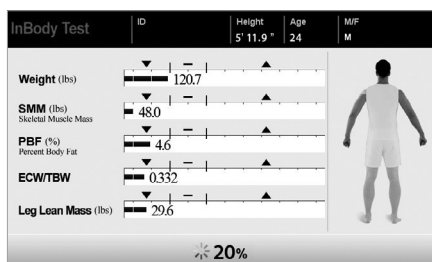
4. Maintain proper posture to take the test.

* Refer to 'C. Test Posture' for the proper posture.

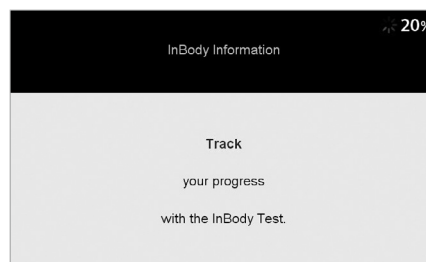


5. The InBody Test begins.

* InBody Information is shown if using Self Mode.

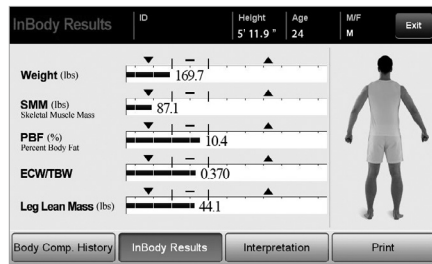


Professional Mode



Self Mode

6. When the test is completed, the results will be shown on screen.



Professional Mode

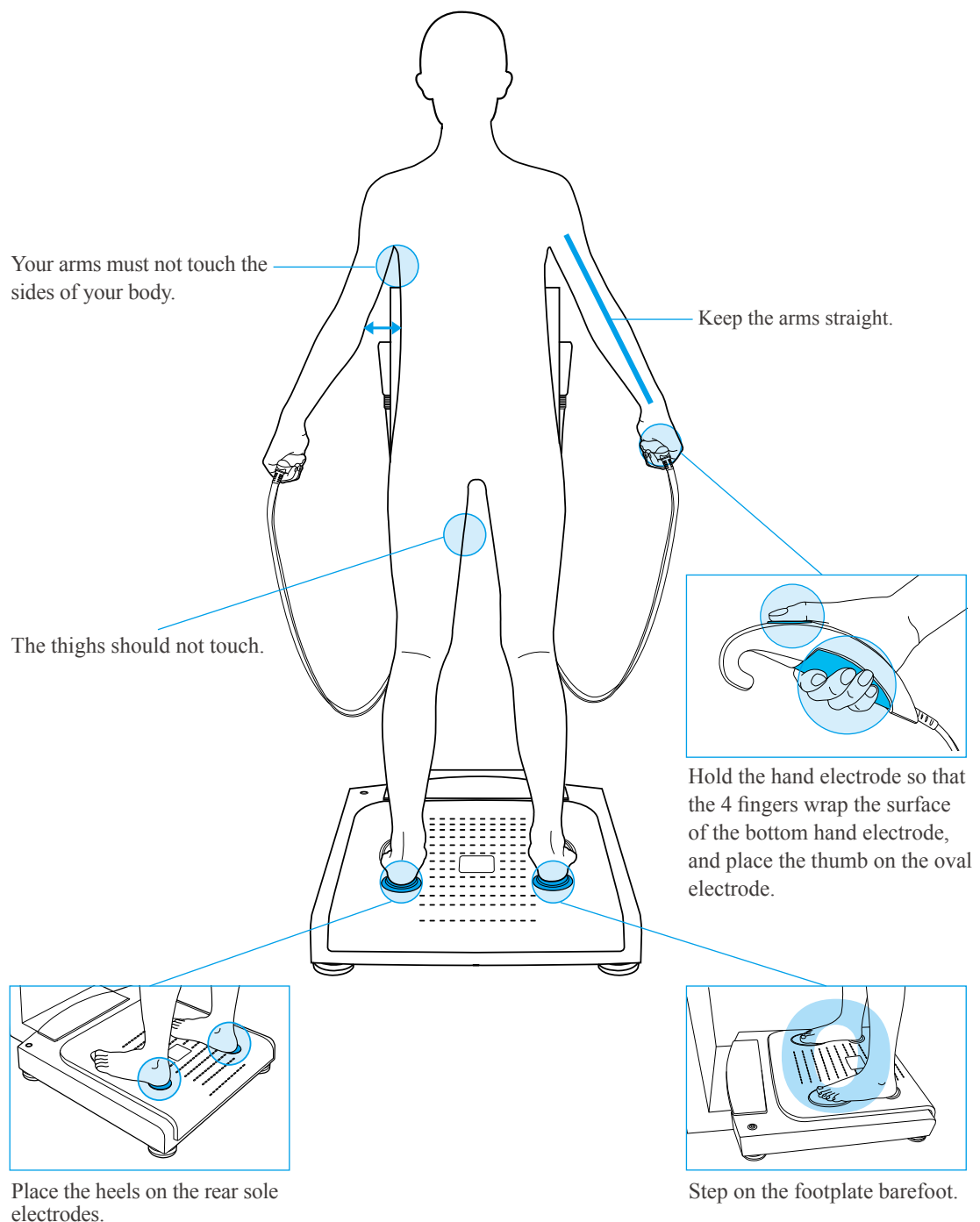


Self Mode

C. Test Posture

The examinee must maintain proper posture to have accurate test results.

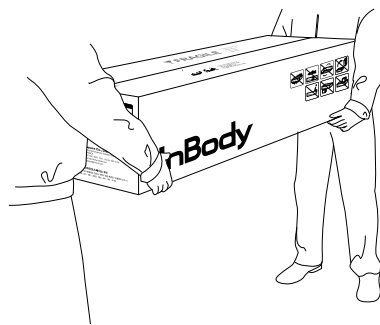
* The test will proceed when there is good electrical contact.



III. Transportation and Storage

A. Cautions during Transportation

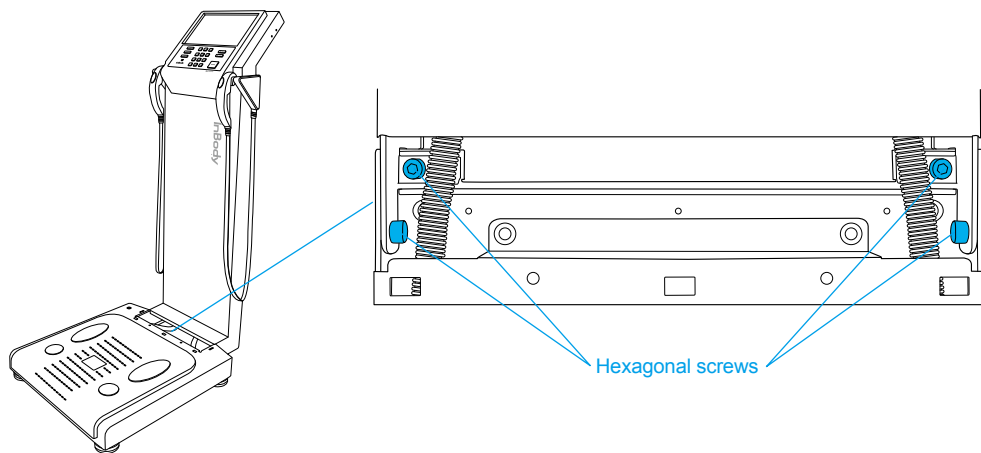
When transporting, have two people keep the InBody770 parallel to the ground.



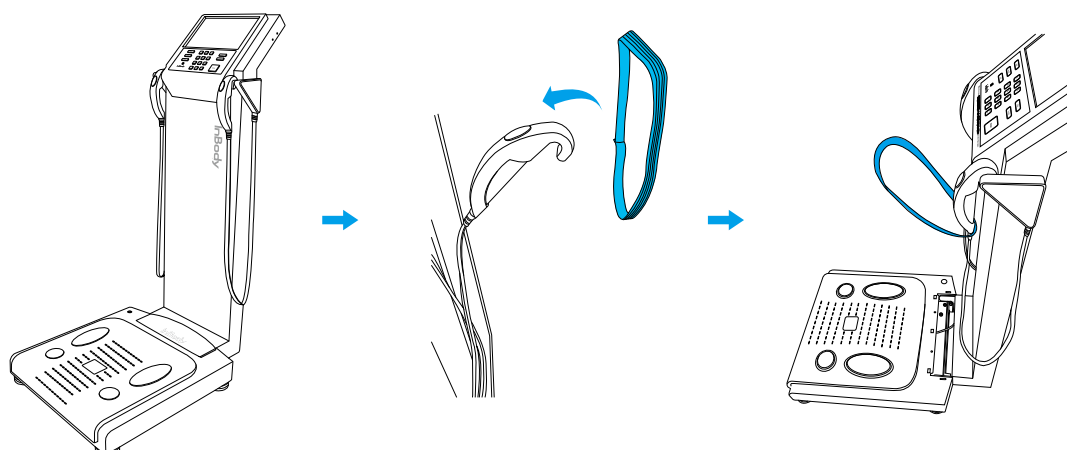
B. Repacking Instructions

Once the InBody770 is installed, avoid transporting the equipment. If it must be transported, repack it in the following sequence.

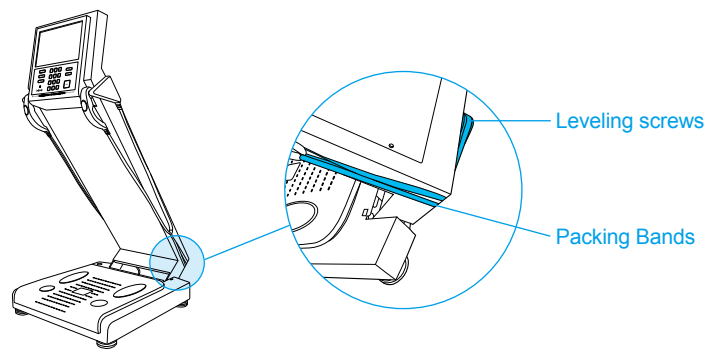
1. Turn off the InBody770.
2. Separate the connected Adapter, cords and cables from the equipment. Place both hand electrodes on the hand electrode holders.
3. Loosen the hexagonal screws which are located on the joints of the InBody770 to counter-clockwise using the Hexagonal Wrench.



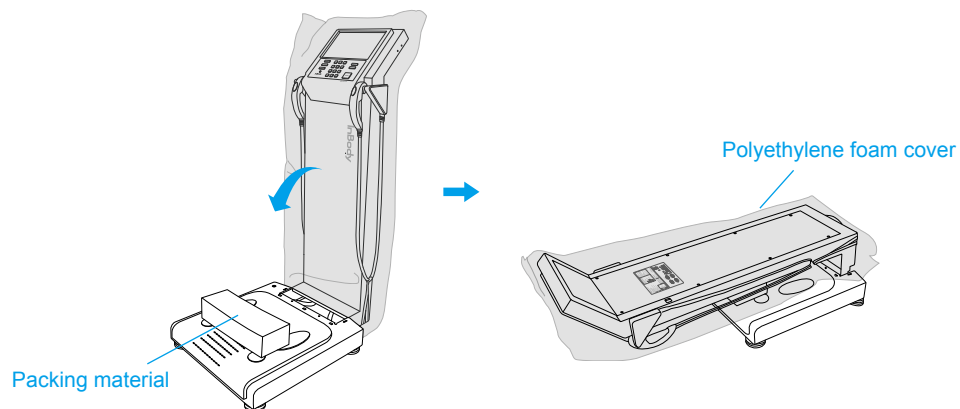
4. Please refer to the following illustrations to properly hang the Packing Bands on the hand electrodes.



5. Slightly lower the upper part of the InBody770 and hook the Packing Band to the leveling screws as illustrated below.



6. Place the packing material on the footplate of the InBody770. Cover the InBody770 with the polyethylene foam cover then fold down lower the upper part.



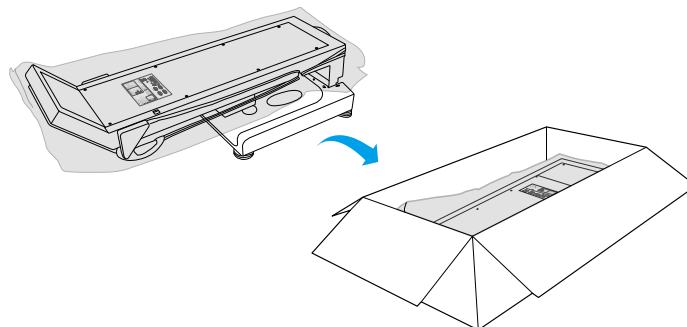
! Caution

- Always use the protective packing materials provided by InBody when repacking.

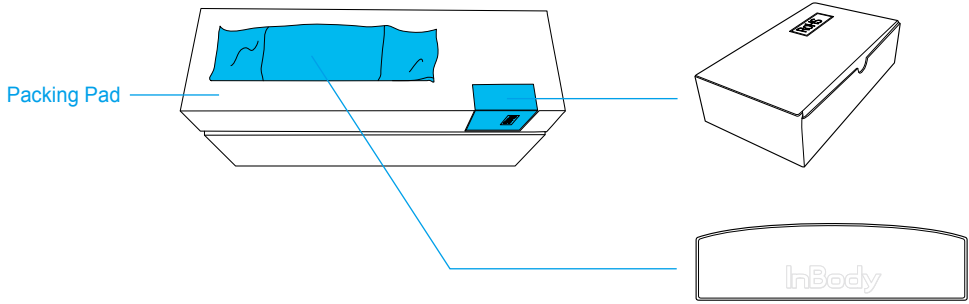
! Attention

- Utilisez toujours l'emballage de protection fournis par InBody lors du ré-emballage.

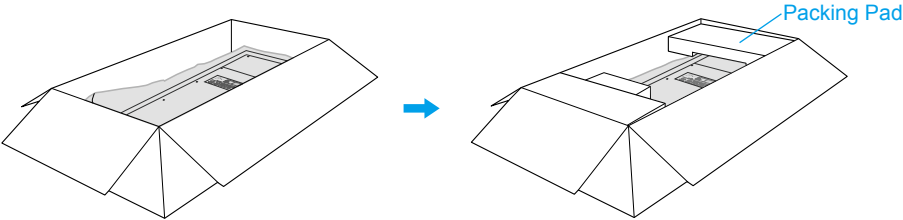
7. Place the InBody into the packing box.



8. Place the Adapter into the Adapter box as illustrated below. Insert the Adapter box and Hinge Cover into the packing material.



9. Place the packing pad over the equipment and tape up the packing box.



C. Transportation and Storage Environment

The InBody770 should be transported or stored under the following conditions.

Temperature range	14 - 158°F (-10 - 70°C)
Relative humidity	10 - 95% RH (No Condensation)
Atmospheric pressure	50 - 106kPa

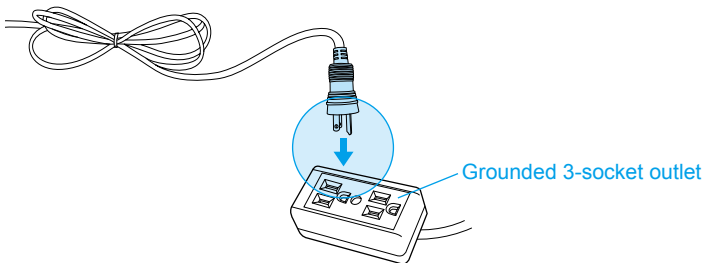
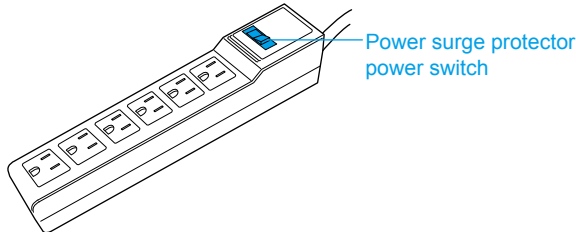
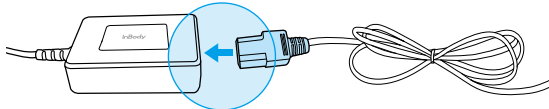
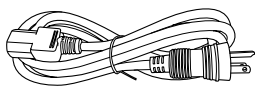
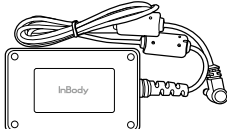
IV. Frequently Asked Questions (FAQ)

Even if no problems arise from the equipment, users may still have many questions, especially regarding clinical procedures. Few common questions and answers are listed below. If your questions are not answered here, please contact InBody.

* Customer contact information can be found under Setup of the Administrator Menu '24. Customer Service Information'.

A. Regarding the InBody

If a problem arises with the InBody770, you may first attempt to check the 'Troubleshooting' in the Administrator Menu. The InBody770 can help you diagnose and solve some problems. If your problem cannot be resolved through the 'Troubleshooting', please refer to the possible solutions below.

Question	Answer
• My InBody770 does not turn on.	• Insert the power plug completely into a grounded 3-socket outlet. 
	• When using a power surge protector, the equipment may not power on if the power switch on the power surge protector is turned off. Check the power surge protector which the power plug is connected to. 
	• The problem may occur if the power cord is not completely plugged into the adapter. Insert the power cord completely into the adapter. 
	• The problem may occur if you are using a power adapter that was not provided by InBody. Always connect a power adapter (DC 12V, 3.4A/3.34A) provided by InBody.  Power adapter Power cord

Question	Answer
• My touchscreen is inaccurate or not responsive.	• Calibrate the touchscreen under Setup of the Administrator Menu '23. Touchscreen Alignment'. * Press firmly to optimize touchscreen response. • If you cannot enter the Administrator Menu due to touchscreen problems, please restart the InBody. The InBody stores the last touchscreen alignment and will automatically recall the previous touchscreen settings. The InBody can also recognize if its touchscreen alignment is off screen and will automatically take the user to the calibration screen after restarting.
• I would like to connect other equipment to the InBody770.	• Please refer to 'E. Connecting Printer, Stadiometer, and Blood Pressure Monitor' in section 'I. InBody770 Installation' in this User's Manual.

B. Regarding the InBody Test

Some of the more common clinical questions are answered below. If additional questions or more clarification is desired, please contact InBody.

Question	Answer
• Must socks or stockings be removed for the InBody Test?	• Bare skin contact is essential in the analysis using the BIA method. Socks or stockings may cause a varying degree of distortion in the results. Socks or stockings must be removed to obtain accurate data.
• Is it okay to wear accessories (jewelry, watch, rings, etc) or metal objects while taking the InBody Test?	• The ideal condition for the analysis is simply standing with no clothes and wearing no accessories. However, this may not always be possible. Therefore, we recommend that the examinee remove as many clothing items and accessories that may affect the weight as possible.
• Who cannot take the InBody Test or will have difficulties taking the InBody Test?	• Individuals with medical implant devices such as pacemakers, or essential support devices such as patient monitoring systems, must not use this equipment. The currents will flow through the body during the test, which may cause malfunctioning of the device or endanger lives. • Children, amputees, or the elderly, may have trouble testing if they cannot hold the hand electrodes or stand still on the foot electrodes.
• Can a person with metal implants in their body take the InBody Test?	• The ideal test methodology is where the examinee does not wear anything metallic. Individuals with metallic implants may have skewed test results due to the conductivity of the metal affecting the results. • As the weight of clothes and other wear affects the results of the body composition analysis, it is strongly recommended to take off any heavy clothing or metallic wear. Except for the weight, jewelry does not effect the body composition analysis, as the contact point with the InBody770 are the hands and feet.
• I have limited mobility and cannot maintain proper posture for the InBody Test. How can I still be tested?	• It is impossible to test if an individual cannot maintain contact with the hand or foot electrodes. InBody has a line of products that conduct body composition analysis on bed ridden examinees that allow the patients to stay in bed. For more information, please contact InBody.
• Is the electric current harmful to the body?	• The physiological electric impedance method uses safe low level currents that is not harmful to the body. The safety of the InBody has been tested and proven. The InBody products have been approved for medical use by the CE and all over the world. Many medical institutions around the world are actively using the InBody.
• How often should I take the InBody Test?	• Individuals who are undergoing any programs that may affect their body composition are strongly recommended to have the InBody Test done every two to four weeks. • Consistent testing will allow individuals to track and monitor their progress over time.
• What are the precautionary steps to ensure accuracy of the InBody Test?	• Please refer to 'A. Precautionary Steps' in section 'II. InBody Test' in this User's Manual.

V. Others

* The InBody770 is manufactured according to the quality management procedure of InBody. InBody complies with the ISO9001 and ISO13485 which are international quality management systems.

* This equipment satisfies the IEC60601-1 (EN60601-1), an international safety standard for electronic medical equipment. This equipment also satisfies the IEC60601-1-2 (EN60601-1-2), an international standard for electromagnetic conformity.

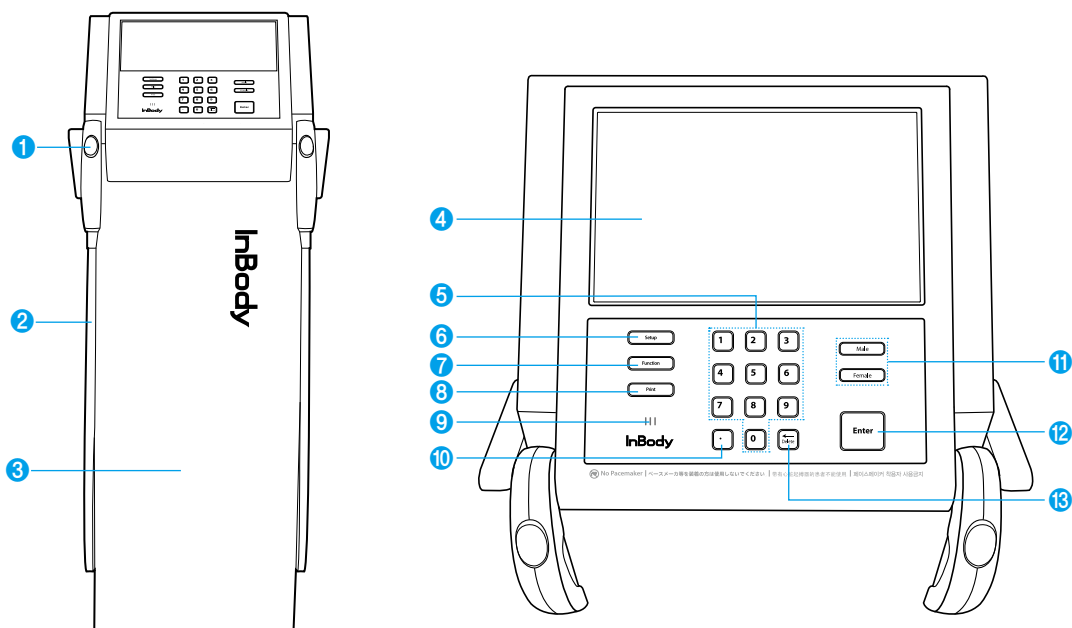
A. Exterior and Functions

The following are the names and functions of each part of the InBody.

* Please inspect each component of the InBody770 for damage prior to installation.

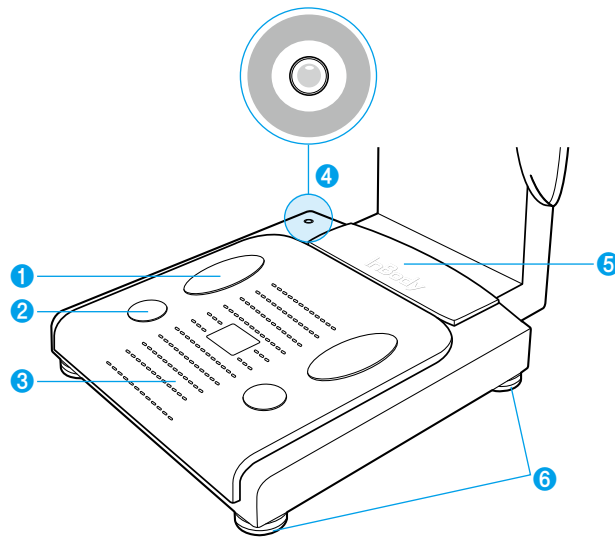
1. Upper Part

- ❶ Hand electrode: Examinee holds the hand electrode so that the 4 fingers wrap the surface of the bottom hand electrode while the thumb is placed on the oval electrode.
- ❷ Hand electrode cable: Supports the hand electrode and encloses the wiring for the electrode.
- ❸ Body: Connects the upper part of the equipment to the lower part.
- ❹ LCD screen: Shows each stage of the test, instructions, test results, etc. You can touch the screen to input the data required for the test, configure settings, or view test results.
- ❺ Number keypad: Used for inputting age, height, and other number-based data.
- ❻ Setup button: Used for entering 'Setup' under the Administrator Menu when no one is on the footplate.
- ❼ Function button: Used for entering 'Troubleshooting' under the Administrator Menu when no one is on the footplate.
- ❽ Print button: Used for printing the test results.
- ❾ Speaker: Provides audible indication for test in progress, test complete, and successfully saved setting changes.
- ❿ Decimal point button: Used for inputting the decimal point in ID, height, age, or weight.
- ⓫ M/F buttons: Used for choosing between Male and Female.
- ⓬ Enter button: Used to finish inputting data or to save changes in Administrator Menu.
- ⓭ Delete button: Used for deleting inputted data.



2. Footplate

- ❶ Front sole electrode: The examinee makes contact with this electrode by stepping with the front part of their foot.
- ❷ Rear sole electrode: The examinee makes contact with this electrode by stepping with the heel of their foot.
- ❸ Footplate: This is connected to the scale, which measures the examinee's weight.
- ❹ Level indicator: Indicates the current horizontal level of the InBody770.
- ❺ Hinge Cover: Joins the upper part and lower part of the equipment together.
- ❻ Leveling screws: Used for adjusting the horizontal level of the equipment.



3. Rear Panel

❶ Rear cover: Designed to be opened only by InBody service personnel for checking internal circuits, etc.

❷ 9-pin blood pressure monitor serial port (Female, RS-232C): Used for connecting the InBody770 to a blood pressure monitor.

* Only compatible with a InBody blood pressure monitor.

❸ 9-pin PC serial port (Female, RS-232C): Used for connecting the InBody770 to LookinBody120 installed on the computer.

* The InBody770 can be connected to LookinBody120 installed on a computer using one of the ports ❷, ❹, or ❺.

❹ 9-pin stadiometer serial port (Female, RS-232C): Used for connecting the InBody770 to a stadiometer.

* Only compatible with a InBody stadiometer.

❺ LAN port (10T Base): Used for connecting the InBody770 to LookinBody120 installed on a computer.

* The InBody770 can be connected to LookinBody120 installed on a computer using one of the ports ❷, ❹, or ❺.

❻ USB SLAVE port: Used for connecting the InBody770 to LookinBody120 installed on a computer.

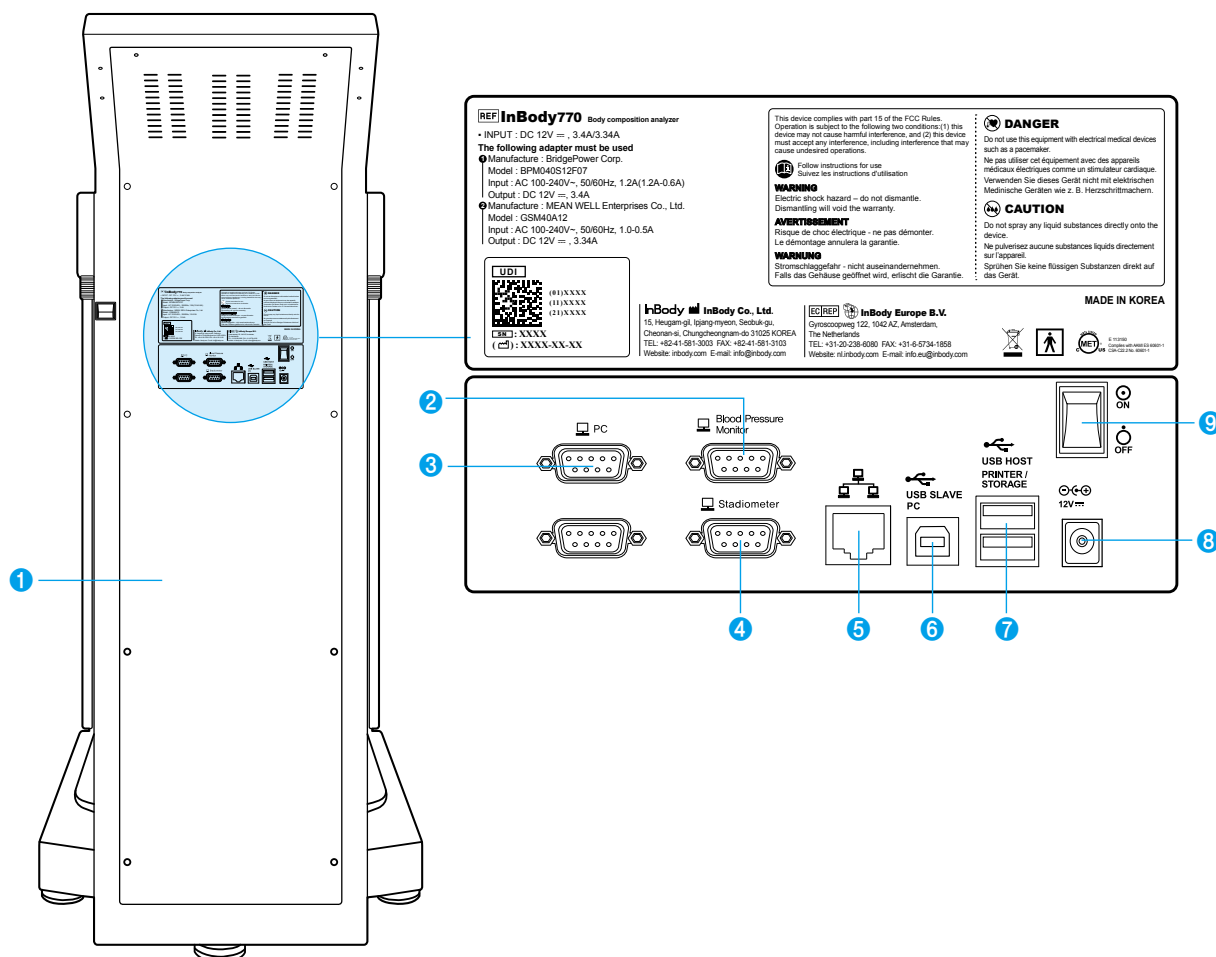
* The InBody770 can be connected to LookinBody120 installed on a computer using one of the ports ❷, ❹, or ❺.

❼ USB HOST port: Used for connecting to a printer or a USB Thumb Drive.

❽ Power input port: Used for connecting to the power adapter.

* Always use the specified adapter provided by InBody as it is a part of the InBody770. Using other adapters may result in malfunction of the InBody770.

❾ Power switch: Used for turning on/off the equipment.



Warning

- Do not touch signal input, signal output or other connectors, and the patient simultaneously.
- External equipment intended for connection to signal input, signal output or other connectors, shall comply with relevant IEC Standard(e.g., IEC60950 for IT equipment and IEC60601-1 series for medical electrical equipment). In addition, all such combination-system-shall comply with the standard IEC60601-1 and/or IEC60601-1-1 harmonized national standard or the combination. If in doubt, contact qualified technician or your local representative.

Advertisement

- *Ne touchez pas simultanément ni l'entrée du signal, la sortie du signal ou d'autres connecteurs et le patient.*
- *Les équipements externes destinés à la connexion de l'entrée du signal, de la sortie du signal ou d'autres connecteurs doivent respecter les normes de la CEI appropriées (par exemple, CEI 60950 pour les équipements informatiques et les séries CEI 60601-1 pour les équipements électro-médicaux). De plus, toute combinaison de ces systèmes doit être conforme à la norme CEI 60601-1 et/ou aux normes nationales harmonisées CEI 60601-1-1 ou leur combinaison. En cas de doute, contactez un technicien qualifié ou votre représentant local.*

B. Safety Information

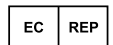
Indicators

	9-pin serial port (Female, RS-232C)
	LAN port (10T Base)
	USB port

Safety Symbols

	Dangerous High Voltage
	Warning, Caution
	BF Type Equipment
	Adapter
	Power On
	Power Off

Etc. Symbols

	Complies with AAMI ES60601-1 CSA-C22.2 No. 60601-1		Serial Number
	Manufacturer		Direct Current
	Authorized Representative in the European Community		Unique Device Identification
	Operating Instructions	 	Do Not Disassemble, Adjust, or Repair the Product Arbitrarily



Follow instructions for use
Suivez les instructions d'utilisation

WARNING

Electric shock hazard – do not dismantle.
Dismantling will void the warranty.

AVERTISSEMENT

Risque de choc électrique - ne pas démonter.
Le démontage annulera la garantie.



DANGER

Do not use this equipment with electrical medical device such as a pacemaker.

Ne pas utiliser cet équipement avec des appareils médicaux électriques comme un stimulateur cardiaque.



CAUTION

Do not spray any liquid substance directly onto the device.

Ne pulvérisez aucune substances liquids directement sur l'appareil.

C. Classification

Body Composition Analyzer of Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method

- Types of protection against electric shock: Class I
- Type of the applied parts: BF Type
- EMC Emission: CLASS B
- Degree of protection against water infiltration: IPX0

D. Specifications

Bioelectrical Impedance Analysis (BIA) Measurement Items	Bioelectrical Impedance (Z)	30 Impedance Measurements by Using 6 Different Frequencies (1kHz, 5kHz, 50kHz, 250kHz, 500kHz, 1000kHz) at Each of 5 Segments (Right Arm, Left Arm, Trunk, Right Leg and Left Leg)
	Reactance (Xc)	15 Impedance Measurements by Using 3 Different Frequencies (5kHz, 50kHz, 250kHz,) at Each of 5 Segments (Right Arm, Left Arm, Trunk, Right Leg, and Left Leg)
Electrode Method	Tetrapolar 8-Point Tactile Electrodes	
Measurement Method	Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method, DSM-BIA Simultaneous Multi-frequency Impedance Measurement (SMFIM)	
Body Composition Calculation Method	No Empirical Estimation	
Outputs (InBody Results Sheet)	Intercellular Water, Extracellular Water, Total Body Water, Dry Lean Mass, Lean Body Mass, Body Fat Mass, Weight, Skeletal Muscle Mass, Body Mass Index, Percent Body Fat, Segmental Lean Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Segmental ECW/TBW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), ECW/TBW, Body Composition History (Weight, Skeletal Muscle Mass, Percent Body Fat, ECW/TBW), Fitness Score, Visceral Fat Area, Body Fat-Lean Body Mass Control, Segmental Fat Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Segmental Body Water Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Segmental ICW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Segmental ECW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Basal Metabolic Rate, Arm Circumference (AC), Visceral Fat Level, Results Interpretation QR Code, Reactance (5kHz, 50kHz, 250kHz), Whole Body Phase Angle (50kHz, Right side of the body), Segmental Phase Angle (5kHz, 50kHz, 250kHz, Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Blood Pressure (Systolic, Diastolic, Pulse, Mean Artery Pressure, Pulse Pressure, Rate Pressure Product) Impedance at each segment/frequency	

Outputs (InBody Results Sheet)	* Indications for use: For use only in healthy subjects for Measurement of: • Estimated: Skeletal Muscle Mass, Extra-Cellular Water (ECW), Intra-Cellular Water (ICW), Total Body Water (TBW), ECW/TBW, Body Fat, Percentage of Body Fat (PBF), Body Lean + Dry Lean, Metabolic Rates (Basal Metabolic Rates), Segmental Lean Mass, Segmental Fat Mass, % Segmental Body Fat, Energy Expenditure of Activity, Visceral Fat Area (VFA), Visceral Fat Level, Segmental Body Water, Percent Body Water, Body Shape Graph, Weight Control, Fat Control, Muscle Control, Segmental ECW/TBW, Segmental ECW, Segmental ICW, TBW/LBM, Leg Lean Mass, Fitness Score, AC • Actual: Weight, Body Mass Index (BMI) and Impedance Values, Height [which can require the entry of Height], Resistance Values, Reactance Values, Phase Angle		
Outputs (Body Water Results Sheet)	Intercellular Water, Extracellular Water, Total Body Water, ECW/TBW, Segmental Body Water Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Segmental ECW/TBW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Body Water Composition History (Weight, Total Body Water, Intracellular Water, Extracellular Water, ECW/TBW), Visceral Fat Area, Segmental ICW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Segmental ECW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Dry Lean Mass, Lean Body Mass, Body Fat Mass, Weight, Skeletal Muscle Mass, Body Mass Index, Percent Body Fat, Basal Metabolic Rate, Visceral Fat Level, Arm Circumference (AC), TBW/LBM, Results Interpretation QR Code, Reactance (5kHz, 50kHz, 250kHz), Whole Body Phase Angle (50kHz, Right side of the body), Segmental Phase Angle (50kHz, Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Impedance at each segment/frequency		
Optional Equipment	Stadiometers from InBody, Blood pressure monitor from InBody		
Logo	Name, Address, and Contact Information can be shown on the InBody Results Sheet.		
Digital Results	LCD Monitor, Data management software LookinBody120		
Results Sheet	InBody Results Sheet, Body Water Results Sheet		
Voice Guidance	Provides audible indication for test in progress, test complete, and successfully saved settings changes.		
Database	Test results can be saved if the member ID is utilized. The InBody can save up to 100,000 results.		
Test Mode	Self Mode, Professional Mode		
Administrator Menu	Settings: Configure settings and manage data Troubleshooting: Additional information to help use the InBody770		
USB Thumb Drive	Copy, backup, or restore the InBody770 data (data can be viewed on Excel or LookinBody120 data management software)		
Barcode Reader	The member ID will be automatically inputted when the barcode ID is scanned.		
Applied Rating Current	80μA(±10μA)		
Adapter	Bridgepower (BPM040S12F07)	Power Input	AC 100-240V, 50/60Hz, 1.2-0.6A
		Power Output	DC 12V = , 3.4A
	Mean Well (GSM 40A12)	Power Input	AC 100-240V, 50/60Hz, 1.0-0.5A
		Power Output	DC 12V = , 3.34A
Display Type	800 × 480 10.2 inch Color TFT LCD		
Internal Interface	Touchscreen, Keypad		
External Interface	RS-232C 4EA, USB HOST 2EA, USB SLAVE 1EA, LAN (Ethernet, 10T) 1EA, Wi-Fi 1EA		

Compatible Printer	Laser/Inkjet PCL 3 or above and SPL
Dimension	20.7(W) × 33.6(L) × 46.3(H): inch 526(W) × 854(L) × 1175(H): mm
Equipment Weight	83.8lb (38kg)
Test Time	About 50 seconds
Operation Environment	50 - 104°F (10 - 40°C), 30 - 75% RH, 70 - 106kPa
Storage Environment	14 - 158°F (-10 - 70°C), 10 - 80% RH, 50 - 106kPa (No Condensation)
Testing Weight Range	4.4 - 595.2 lb (2 - 270 kg)
Testing Age Range	3+ years
Testing Height Range	3 ft 1.4in - 7ft 2.6in (95 - 220cm)

* Specifications can be changed without a prior notice.

* "QR Code" is registered trademark of DENSO WAVE INCORPORATED.

E. Guidance and Manufacturer's Declaration

The InBody device is intended for use in the electromagnetic environment specified below. The customer or the user of the InBody device should ensure that it is used in such an environment.

Electromagnetic emissions			
Emissions test		Compliance	Electromagnetic environment
RF emissions CISPR 11		Group 1	The InBody device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11		Class B	The InBody device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2		Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3		Complies	

Electromagnetic immunity			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge IEC 61000-4-2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 % is recommended.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/ output lines	± 2 kV for power supply lines ± 1 kV for input/ output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 0.5 kV, ± 1 kV differential mode ± 0.5 kV, ± 1 kV, ± 2 kV common mode	± 0.5 kV, ± 1 kV differential mode ± 0.5 kV, ± 1 kV, ± 2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.

Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % U_T (100 % dip in U_T) for 0.5/1 cycles 70 % U_T (30 % dip in U_T) for 25/30 cycles 0 % U_T (100 % dip in U_T) for 250/300 cycles	0 % U_T (100 % dip in U_T) for 0.5/1 cycles 70 % U_T (30 % dip in U_T) for 25/30 cycles 0 % U_T (100 % dip in U_T) for 250/300 cycles	Mains power quality should be that of a typical commercial or hospital environment. If the user of this product requires continued operation during power mains interruptions, it is recommended that this product be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a commercial or hospital environment.

Recommended separation distances between portable and mobile communication equipment and InBody device

The InBody device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the InBody device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the InBody device as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter [W]	Separation distance according to frequency of transmitter [m]	
	IEC 60601-1-2: 2014	
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 2.7 GHz $d = 2.0\sqrt{P}$
0.01	0.12	0.20
0.1	0.38	0.63
1	1.2	2.0
10	3.8	6.3
100	12	20
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.		
NOTE 1	At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.	
NOTE 2	These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.	

Electromagnetic immunity			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 V 150 kHz to 80 MHz	3 V	Portable and mobile RF communications equipment should not be used closer to any part of the Ultrasound System, including cables, than the recommended separation distance. This is calculated using the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	6 Vrms 150 kHz - 80 MHz In ISM bands ¹ amateur radio bands Bands ²	6 V	Recommended separation distance $d = 1.2\sqrt{P}$ IEC 60601-1-2:2014 $d = 2.0$ 80 MHz to 2.7 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ³ should be less than the compliance level in each frequency range. ⁴ Interference may occur in the vicinity of equipment marked with following symbol:
	10 V/m 80 MHz to 2.7 GHz	10 V/m	
NOTE 1	At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.		
NOTE 2	These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.		

1. The ISM (Industrial, Scientific and Medical) bands between 150 kHz and 80 MHz are 6.765 MHz to 6.795 MHz; 13.553 MHz to 13.567 MHz; 26.957 MHz to 27.283 MHz; and 40.66 MHz to 40.70 MHz.
2. The amateur radio bands between 0.15 MHz and 80 MHz are 1.8 MHz to 2.0 MHz, 3.5 MHz to 4.0 MHz, 5.3 MHz to 5.4 MHz, 7 MHz to 7.3 MHz, 10.1 MHz to 10.15 MHz, 14 MHz to 14.2 MHz, 18.07 MHz to 18.17 MHz, 21.0 MHz to 21.4 MHz, 24.89 MHz to 24.99 MHz, 28.0 MHz to 29.7 MHz and 50.0 MHz to 54.0 MHz.
3. Field strength from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the InBody device is used exceeds the applicable RF compliance level above, the InBody device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the InBody device.
4. When the frequency range exceeds 150 kHz - 80 MHz, the electric field strength should be not higher than 3 V/m.

Electromagnetic emissions

The InBody device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. Portable RF communications equipment should be used no closer than 30 cm (12 inches) to any part of the InBody device. Otherwise, the performance of this equipment could be impaired.

Immunity test	Band	Service ⁵	Modulation ⁶	IEC60601 test level	Compliance level
Proximity fields from RF wireless Communications IEC61000-4-3	380 - 390 MHz	TETRA 400	Pulse modulation 18 Hz	27 V/m	27 V/m
	430 - 470 MHz	GMRS 460 FRS 460	FM ⁷ ± 5 kHz deviation 1 kHz sine	28 V/m	28 V/m
	704 - 787 MHz	LTE Band13, 17	Pulse modulation 217 Hz	9 V/m	9 V/m
	800 - 960 MHz	GSM800:900 TETRA 800 iDEN 820 CDMA 850 LTE Band 5	Pulse modulation 18 Hz	28 V/m	28 V/m
	1700 - 1990 MHz	GSM 1800 CDMA 1900 GSM 1900 DECT LTE Band 1,2,4,25 UMTS	Pulse modulation 217 Hz	28 V/m	28 V/m
	2400 - 2570 MHz	Bluetooth WLAN 802.11b/g/n RFID 2450 LTE Band	Pulse modulation 217 Hz	28 V/m	28 V/m
	5100 - 5800 MHz	WLAN 802.11a/n	Pulse modulation 217 Hz	9 V/m	9 V/m

NOTE If it is necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1m. The 1m test distance is permitted by IEC 61000-4-3.

5. For some services, only the uplink frequencies are included.

6. The carrier shall be modulated using a 50 % duty cycle square wave signal.

7. As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be the worst case.

