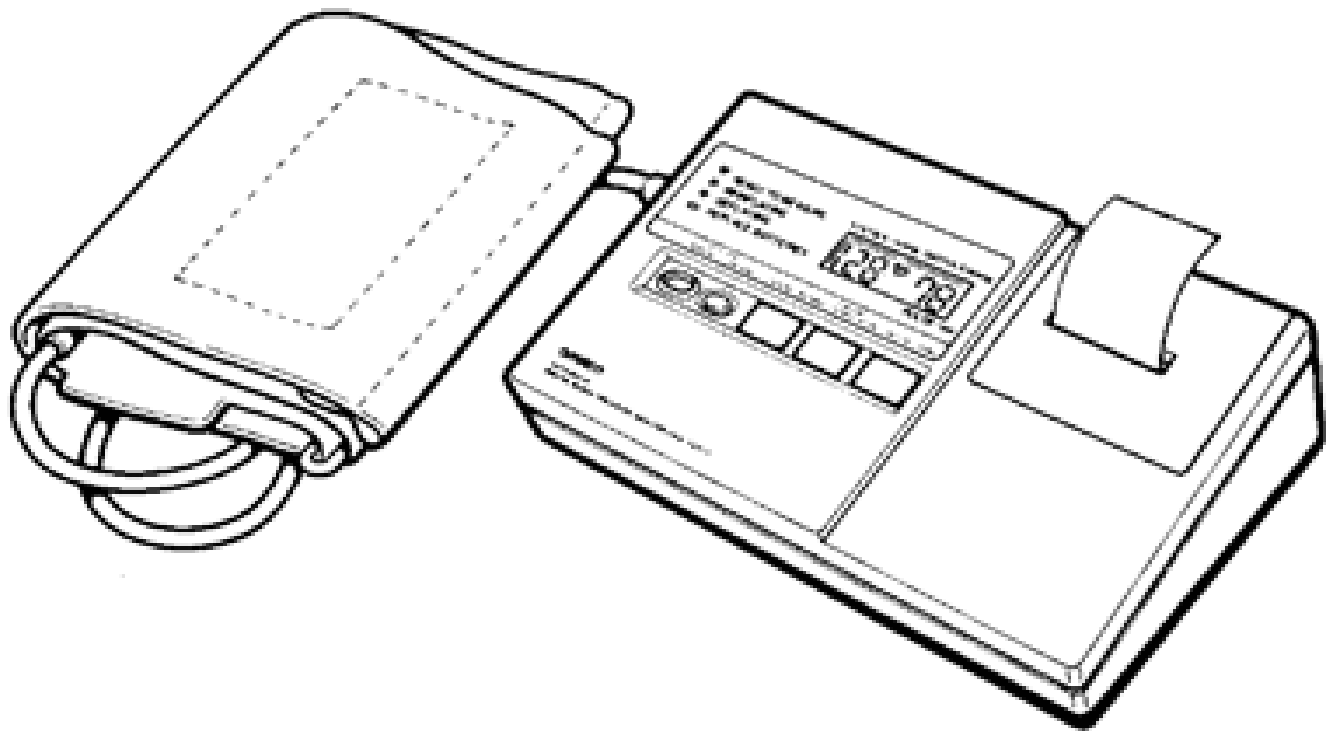


OMRON®

Instruction Manual

Automatic Digital Blood Pressure Monitor

Model **HEM-703CP**



HEM-703CP-xxxx 0692581-7 A

Important

Thank you for purchasing our Digital Blood Pressure & Pulse Monitoring Kit. Please carefully read this instruction manual before use and keep it with your portion of the enclosed warranty card.

PLEASE NOTE:

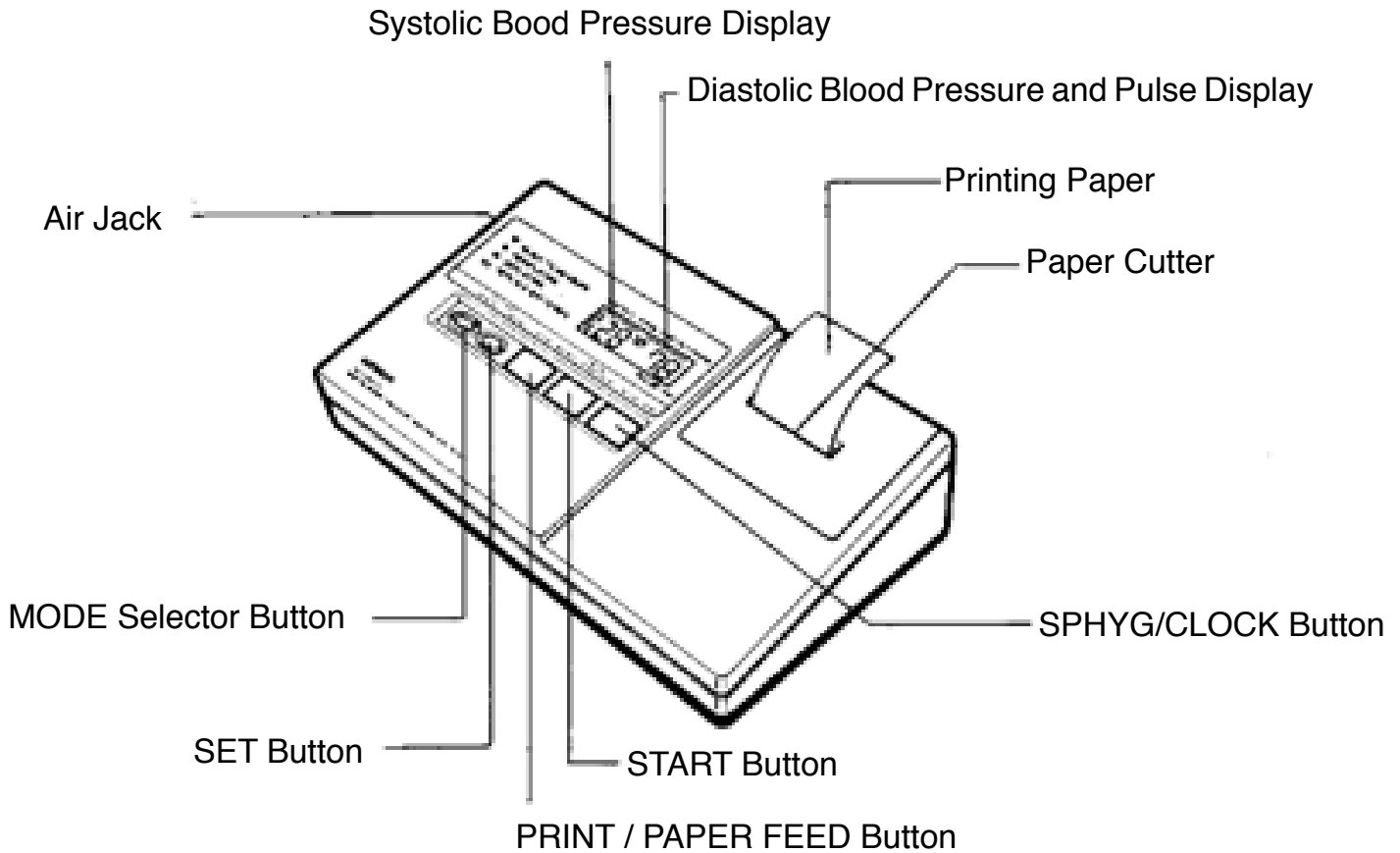
1. Allow 3 to 5 minutes between blood pressure readings on same arm. Repeated measurement results in inaccurate readings.
2. Keep in mind only a physician can accurately determine safe or unsafe limits of blood pressure. This instrument should be used by non-professional persons only to determine measurement of blood pressure, not to make any medical judgement. Remember, blood pressure varies during the day.
3. This unit is a precision instrument – avoid rough handling, direct sunlight, high temperature/humidity and magnetic field. Fold-ing or bending cuff may result in damage to cuff.
4. Do not inflate cuff above 280 mmHg.
5. Do not take unit apart. You cannot calibrate unit. If you have any difficulties or problems with unit, contact our Service Center. 1-800-634-4350.

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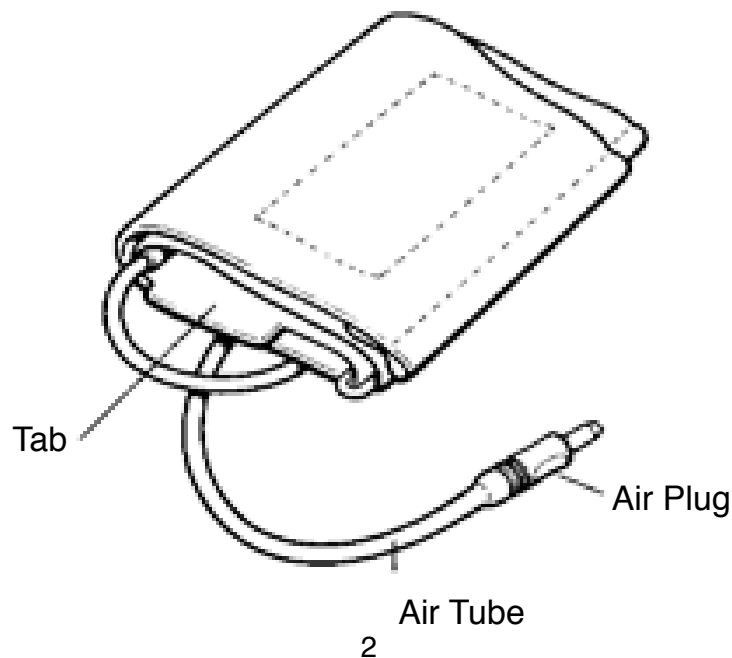
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Name and Function of Each Part

Main Unit



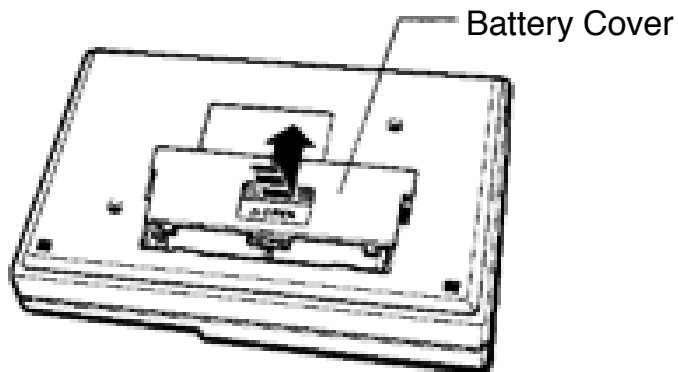
Cuff



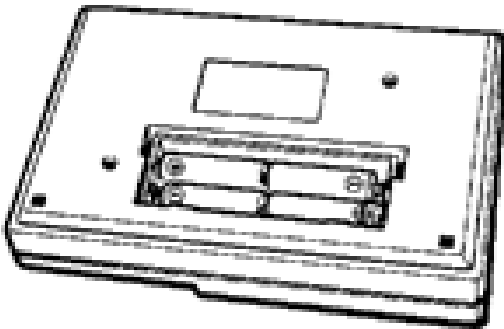
Preparations for Use

1 How to insert the batteries

1. Take off the battery cover at the back of the main unit by sliding it in the direction indicated by the arrow symbol.




2. Install 4 “AA” size batteries attached so that the ⊕ and ⊖ polarities on the batteries correctly match the polarities in the battery compartment.



3. Replace the cover.

Replacement

- When the “Replace Batteries” symbol () flashes during measurement, please replace the batteries with the new ones.
- When the batteries have run down, random numbers may be displayed.

Points to be careful about when using the batteries

- When replacing the batteries please replace all four batteries at once.
- Use the same kind of batteries.
- Take out weak batteries quickly so as to avoid causing damage to the machine.
- Remove the batteries when the unit is not used for extended periods.

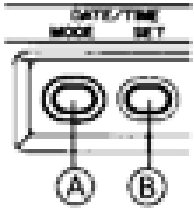
Preparations for Use

2 How to Set Time and Date

1. When batteries are installed, the display shows PM 12:00.



2. When the MODE button (A) is pressed down, the "month" sign is displayed. When the SET button (B) is pressed down, the figure for the month increases. Adjust the "month".



3. When the MODE button (A) is pressed down after the "month" has been adjusted, the "day" sign is displayed. Adjust the "day" in the same way as the "month".



4. In the same manner select the "hour" and "min." with the MODE button (A) and set each value with the SET button (B). AM and PM signs are switched in accordance with the "hour" adjustment.

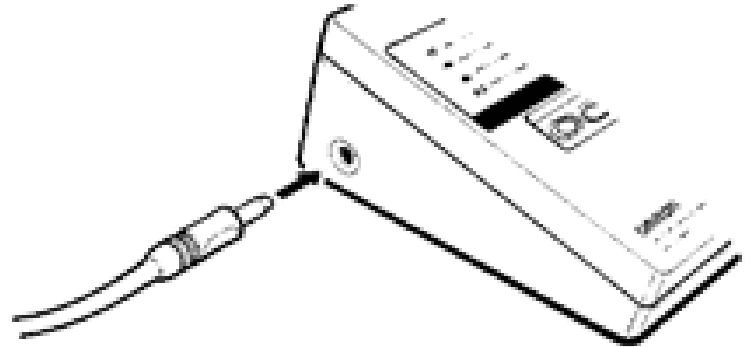


5. Press the MODE button (A) for the last time and return the screen to normal time (hour, min.) display.



3 Plug in and Turn on

1. Insert the air plug into the air jack on the left side of the main unit correctly.



2. When the SPHYG/CLOCK button is changed to the sphygmomanometer mode, all the LCD symbols are momentarily displayed. This happens because the unit is running a check on the display and this state lasts for approximately one second.



Initial Display

3. Once the LCD symbols vanish, the air release indication symbol (↓) starts flashing. Please wait until the (↓) symbol goes out.



Air release indication symbol

4. When the preparations necessary before measurement have been completed, the unit emits a series of beeps and finally the "Ready to Measure" symbol (♥) will be displayed.



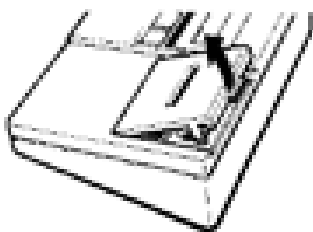
"Ready to Measure" Display

Preparations for Use

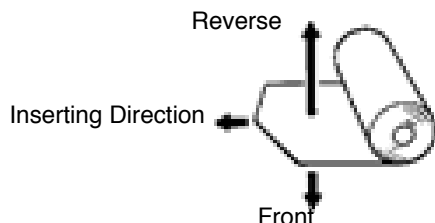
4 How to Set the Printing Paper

Please be sure not to print without inserting printing paper as it will shorten the life span of the printer head.

1. Slide the plastic printer cover in the direction indicated by the arrow symbol and remove it from the main unit.



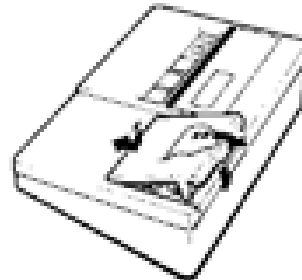
2. Peel off the glued edge of the printing paper included with the unit, and cut it off to about 2 inches with a pair of scissors, and then shape and cut the edge for easy insertion to the printer as shown in the figure.



3. Press the PRINT/PAPER FEED button while inserting the edge of the printing paper to the paper feeding slit. When the edge of the paper protrudes sufficiently, release the button and stop feeding.



4. Insert the printing paper in the installation section, and then attach the cover back to the main unit in such a way that the edge of the paper protrudes from the cover.



5. When the PRINT/PAPER FEED button is pressed while the results of the measurement are shown on the digital display, these results, together with the date and time of measurement are printed out.
6. When purchasing printing paper, ask at the shop where you purchased the main unit for further supply. Other brands of paper may be used providing the dimensions are smaller than 38mm wide and 20mm in diameter. However the printing quality may differ a little.

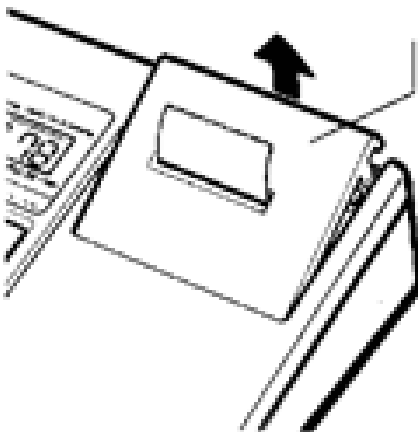
Preparations for Use

5 Changing the Printer Ink

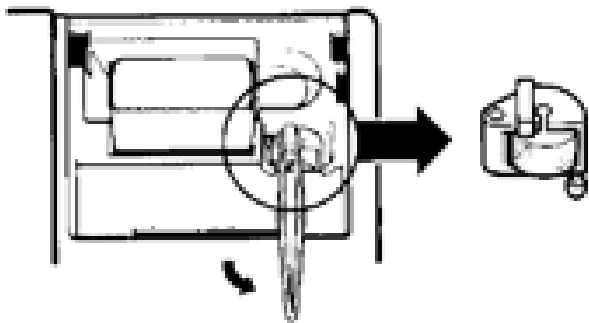
Though not originally equipped with an ink roller, the HEM-703CP digital blood pressure monitor contains enough printer ink to last about two years when used once a day at normal room temperature.

When the ink on the print out becomes light and hard to read, purchase a replacement ink roller from your retailer and install as follows.

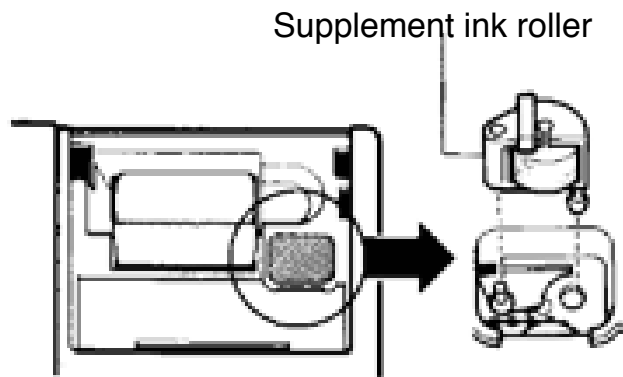
1. Remove the printer cover.



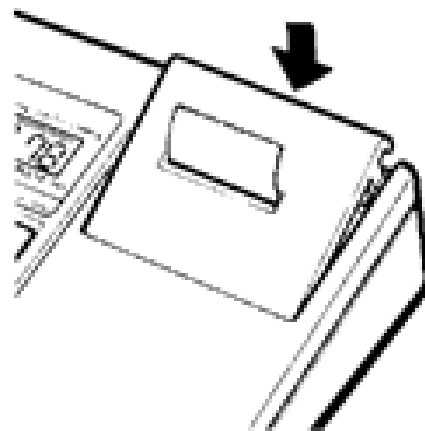
2. Remove the ink, which came with the unit when you bought it, from the allotted space.



3. Insert the supplement ink roller into the allotted space next to the printer.



4. Replace the printer cover.



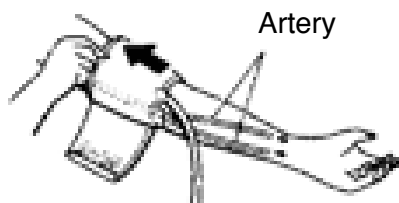
NOTE: The supplement ink roller should last about two years, however, if you need to replace the supplement ink roller, simply grasp the top of the ink roller and turn it slightly counter-clockwise before lifting the roller from the printer.

Preparations for Use

6 Attach the Cuff

This cuff has eliminated the need for a microphone thereby lessening possible interference from vibrations and noise. Fitting also has been made much easier through the widening of the artery oscillation detection area.

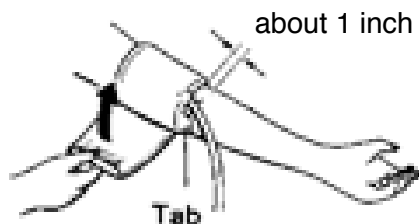
1. Place the cuff on the left arm so that the air tube lies across the center of the arm.



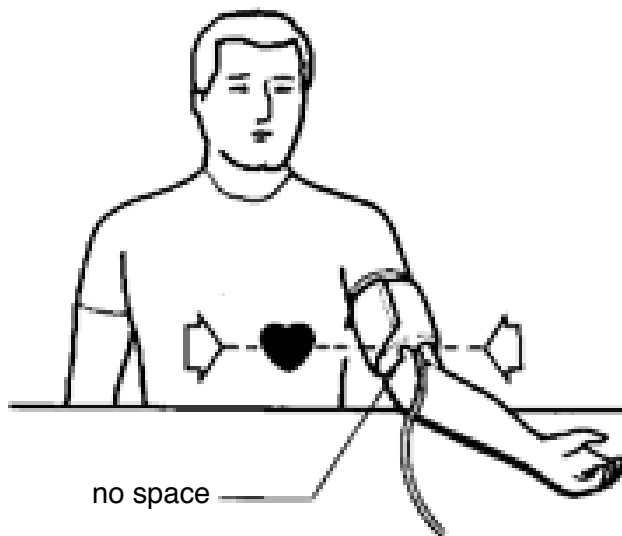
2. Wrap the cuff pulling in a diagonal angle securely so that the cuff tab is positioned about one inch above the elbow joint of the inner your left upper arm. (Over the brachial artery).

There should be no space between the cuff and your arm.

NOTE: If you have any difficulties wrap-ping cuff by yourself, we recom-mend that you ask someone to wrap the cuff for you.



3. Place your arm on a table or a support with the palm facing upward so that the cuff is placed at the same level as the heart.



Preparations for Use

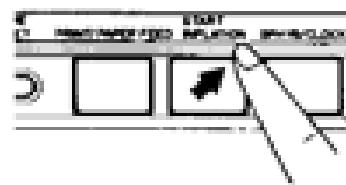
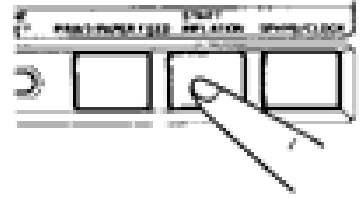
7 Apply Pressure to the Cuff

1. When you press the start button, the pump operates and pressure is applied. When the pressure reaches 170mmHg, the pump stops automatically.



Pressure being applied

Depress the START button continuously until the cuff is inflated up to the targeted pressure.



After the cuff has been inflated, release the START button.

2. When the appropriate pressure has been reached, the air is automatically released and the value on the display window starts to decrease. After a while when the artery oscillations are detected, the (♥) symbol starts flashing and the unit emits a beep-ing sound simultaneously. The value shown on the display will continue to fall.

* During measurement, do not shake the cuff or the air tube.

Notes:

- * If your systolic blood pressure is higher than 140mmHg, the pump starts again and the cuff will be inflated up to 210mmHg.
- * If your systolic blood pressure is higher than 180mmHg, sufficient inflation will not be applied to the cuff by automatic reinflation. In this case, inflate up to 30mmHg higher than your expected systolic blood pressure by pressing the start button continuously. While pressing the start button, the cuff can be inflated continuously, and when the start button is released, the pump stops and the cuff is no longer inflated. When the pressure reaches 300mmHg, the cuff deflates rapidly.
- * When you want to stop measurement, press SPHYG/CLOCK button. The pressure will stop and the air is deflated rapidly.



Targetted Blood Pressure Reached



Indicated Value Drops



Measuring

Preparations for Use

8 Blood Pressure and Pulse are displayed

1. When the unit has continued to deflate to a point when the artery oscillations are no longer detected, the unit will display the systolic and diastolic blood pressure values, along with a long beep, and causes the deflation indication symbol (↓) to start flashing. After this, blood pressure and the pulse readings are displayed alter-nately.

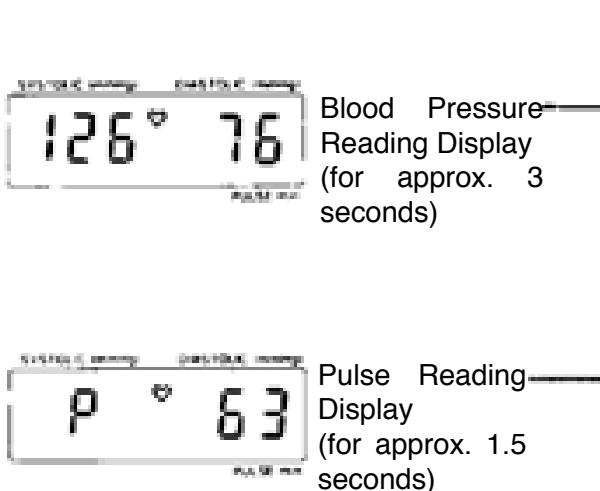


Measurement Completed

When the deflation symbol begins to flash, the residual pressure in the cuff is then rapidly released.

2. Upon total cuff deflation, a series of beeps are emitted and the (♥) symbol is displayed.

Alternate Display



*P: Stands for PULSE.

* When you wish to stop measuring during operation, press the SPHYG/CLOCK button. The pump will stop and all the cuff pressure will be released rapidly.

* When the PRINT button is pressed while the results of the measurement are shown on the digital display, the results will be printed.




3. Measurement of the blood pressure is now complete. The results will remain displayed even after the cuff is taken off. If you wish to carry out repeated measurements, repeat the operation from Step 6.

* The arm gradually becomes congested when measurements are repeatedly taken. If you wish to take consecutive measurements, take off the cuff and wait at least 3 to 5 minutes between measurements.

4. When measurement is completed press the SPHYG/CLOCK button to return to the time display. If you should forget to press this button, the display will return to time display mode automatically after about 5 minutes.

When Error Indication Symbols Appear

The following special error symbols will appear in the display if the unit is being used incorrectly:

ERROR SYMBOL	CAUSE	CORRECTION
	<ol style="list-style-type: none"> 1. Cuff underinflated 2. Movement during measurement 	<ol style="list-style-type: none"> 1) Release air pressure in cuff 2) Wait 10 minutes before taking another reading. 3) Repeat "Instructions for Use" steps except inflate cuff 30 mmHg higher than previous inflation value.
	Residual air pressure in cuff.	<ol style="list-style-type: none"> 1) Release air pressure in cuff 2) Wait 10 minutes before taking another reading.
	Cuff overinflated (more than 300 mmHg). No pulse or blood pressure reading due to: <ol style="list-style-type: none"> 1) Motion 2) Very weak artery oscillation 	<ol style="list-style-type: none"> 3) Repeat "Instructions for Use" steps

Specifications

Power Source:	Battery (four type "AA" dry cell batteries) 6V 4W
Measurement Method:	Oscillometric Method
Display:	Liquid Crystal Digital Display
Measurement Range:	Pressure: 0 ~ 280mmHg Pulse: 40 ~ 200/minute
Accuracy:	Pressure: within ± 3 mmHg Pulse: within $\pm 5\%$ reading
Pressure Detection:	Capacitive Pressure Sensor
Inflation:	Automatic Pressure Application by a Pump
Deflation and Rapid Air Release:	Automatic pressure release valve
Automatic-shut-off System	When the internal pressure in the unit continues at less than 20mmHg for about 5 ~ 8 minutes, the mode changes automatically to clock.
Printer:	Serial static impact printer
Operating/Temperature, Humidity:	+50°F to +104°F (+10°C to +40 °C) 30-85% RH
Storage/Temperature, Humidity:	-4°F to 140°F (-20°C to + 60°C) 10-95% RH
Dimensions (Approx.):	Main Unit: 8 ² / ₄ " (w) X 5 ¹ / ₈ " (d) x 2 ³ / ₅ " (h) (215 x 130x 66 mm) Cuff: 5 ¹ / ₂ "(w) x 18 ⁴ / ₅ "(1) (140x 480 mm)
Cuff Range:	For arms 9" to 13" in circumference
Weight:	Main Unit: approx. 20 ¹ / ₂ oz (580 g)including batteries Cuff: approx. 4 ² / ₅ oz (125 g)
Accessories:	Cuff, instruction manual, Printing paper: 2 rolls Optional parts: AC Adaptor

Specifications subject to change without notice.

This equipment generates and used radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate the computer with respect to the receiver
- move the computer away from the receiver
- plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

“How to Identify and Resolve Radio-TV Interference Problems”. This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

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CUSTOMER SERVICE

TOLL FREE: 1-800-634-4350

Limited One Year Warranty

YOUR OMRON MODEL HEM-713C Digital Blood Pressure Monitor is warranted to be free from manufacturing defects for a period of one year under normal use. This warranty extends only to the original retail purchaser.

Should repair be needed, within the warranty period, ship the unit and receipt as proof of purchase prepaid to OMRON HEALTHCARE, INC., 300 Lakeview Parkway, Vernon Hills, Illinois 60061, together with \$5.00 for return shipping and insurance.

We will either repair or at our option replace free of charge any parts necessary to correct defects in material or workmanship. The above warranty is complete and exclusive. The warrantor expressly disclaims liability for incidental, special or consequential damages of any nature. (Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.)

Any implied warranties arising by operation of law shall be limited in duration to the term of this warranty. (Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. As a condition to operation of your warranty, the enclosed registration card must be completed and sent to us within 10 days from the date of purchase.

Caution

Changes or modifications not expressly approved by OMRON HEALTH CARE, INC. could void the user's authority to operate this product.

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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and 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-03 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", NMB-03 indiquée par le ministre des communications.

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