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Safety Notice

Thank you for purchasing the KS 520 Blood Pressure Monitor. The unit has been constructed using reliable circuitry and durable materials. Used properly, this unit will provide yeas of satisfactory use.

This device is intended for non-invasive measuring an adult individual's systolic, diastolic blood pressure and heart rate using the oscillometric method. The device is not intended for use on infants and children. The device is designed for home or clinical use. All values can be read out in one LCD DISPLAY. Measurement position is on adult upper arm only.

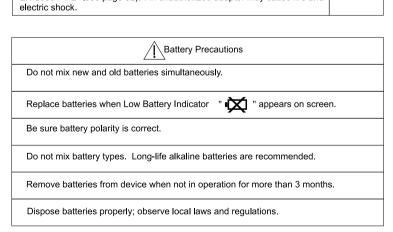
Please read this manual thoroughly before using the unit. Please retain this manual for future reference. For specific information about your blood pressure, please CONSULT YOUR DOCTOR

To avoid risk and damage follow all warning precautions. Operate unit only as intended. Read all instructions prior to use.

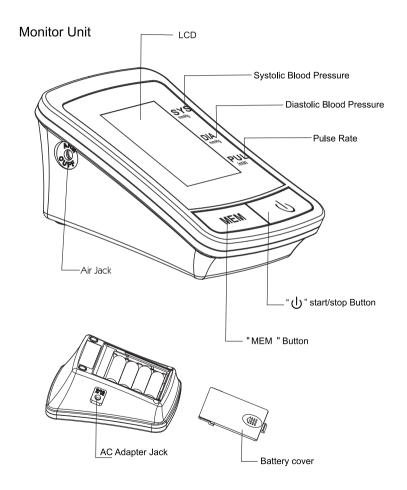
	WARNING SIGNS AND SYMBOLS USED
\triangle	Caution
0	Mandatory
\bigcirc	Prohibited
†	Type BF Equipment
[]i	Consult Instructions For Use
SN	Serial Number
X	Discard the used product to the recycling collection point according to local regulations
C € 0120	The product conforms to the requirements of the EC Directive MDD (93/42/EEC) on medical devices
	Manufacturer
EC REP	Authorized Representative in the European Community

Safety Notice

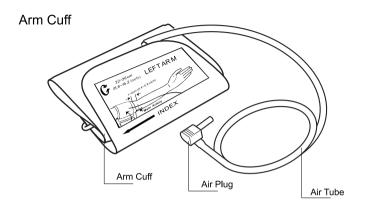
Individuals with serious circulation problems may experience discomfort. Consult your physician prior to use. Contact your physician if test results regularly indicate abnormal readings. Do not attempt to self-treat these symptoms without consulting your physician first. Product is designed for its intended use only. Do not misuse in any way. Product is not intended for infants or individuals who cannot express their intentions. Do not disassemble or attempt to repair. Do not use cell phones and other devices, which generate strong electrical or electromagnetic fields, near the device, as they may cause incorrect readings and interference or become interference source to the device. Only use a recommended AC adapter complying with EN 60601-1 and EN 60601-1-2 (see page 32). An unauthorized adaptor may cause fire and

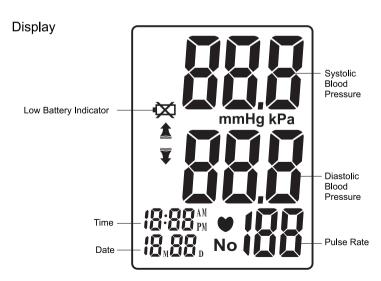


Unit Illustration



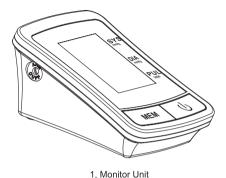
Unit Illustration





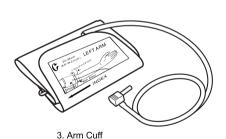
Unit Illustration

Contents



Prossure Contests (SSS)

2. Owner's Manual





4. Storage Case



6. Guarantee card



5. Medical AC Adapter(DC6.0 V, 600mA) (not provided)

Important Testing Guidelines

- 1. Avoid eating, exercising, and bathing for 30 minutes prior to testing.
- 2. Sit in a calm environment for at least 5 minutes prior to testing.
- Do not stand while testing. Sit in a relaxed position while keeping your arm level with your heart.
- 4. Avoid speaking or moving body parts while testing.
- While testing, avoid strong electromagnetic interference such as microwave ovens and cell phones.
- 6. Wait 3 minutes or longer before re-testing.
- 7. Try to measure your blood pressure at the same time each day for consistency.
- Test comparisons should only be made when monitor is used on the same arm, in the same position, and at the same time of day.
- 9. This blood pressure monitor is not recommended for people with severe arrhythmia.
- 10. Do not use this blood pressure monitor if the device is damaged.

Quick Start

- 1. Install batteries. (See Figure A)
- 2. Insert cuff air plug into the left side of monitor unit. (See Figure B)

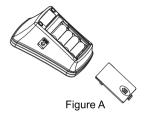




Figure B

- 3. Remove thick clothing from the arm area.
- Rest for several minutes prior to testing. Sit down in a quiet place, preferably at a desk or table, with your arm resting on a firm surface and your feet flat on the floor. (See Figure C)



 Apply cuff to your left arm and keep level with your heart. Bottom of cuff should be placed approximately 1-2cm (0.4-0.8") above elbow joint. (See Figures D&E)



Figure D

Figure E

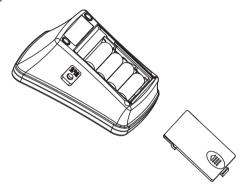
6. Press "(1)" start/stop button to start testing.

Battery Installation

Slide battery cover off as indicated by arrow.

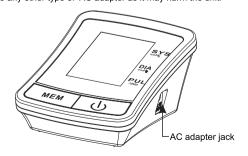
Install 4 new AA alkaline batteries according to polarity.

Close battery cover.



AC adapter jack is on the right side of the monitor. Medical AC adapter (DC 6.0 V, 600mA) can be used with the device (not provided). The adapter connect pin should be positive inside and negative outside with a 2.1mm coaxial joint.

Do not use any other type of AC adapter as it may harm the unit.



Time/Date Setting

With power off, press "()" start/stop button about 3 seconds to set the Time/Date mode. Set month first by adjusting the "MEM" button Press "()" start/stop button to set the day, hour, and minute in same way.

No matter in which setting mode, press "()" start/stop button to turn the unit off. All information will be saved.

Note: if unit is left on and not in use for 3 minutes, it will automatically save all information and shut off.

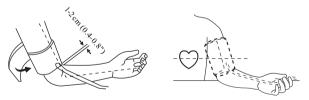
0:00^{AM}

Applying the Arm Cuff

1. Firmly insert air plug into opening located on left side of monitor unit.



- With sticky nylon section facing outward, insert end of cuff underneath metal ring of cuff.
- Fasten cuff about 1-2cm (0.4-0.8") above the elbow joint. For best results apply cuff to bare arm and keep level with heart while testing.



Note: Do not insert air plug into opening located on right side of monitor unit.

This opening is designed for an optional power supply only.

Testing

1. Power On

Press and hold" () " start/stop button until a beep sounds. The LCD screen will appear for one second as unit performs a quick diagnosis. A long tone indicates device is ready for testing.



Note: Unit will not function if residual air from previous testing is present in cuff.

The LCD will flash " 🦉 " until pressure is stabilized.

2. Pressurization

Initial pressure is first pumped to 190 mmHg. If the current user's systolic blood pressure is over 190mmHg, the unit will automatically re-inflate to the proper shelf.



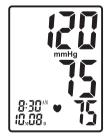
3. Testing



Note: Keep relaxed during testing. Avoid speaking or moving body parts.

4. Result Display

Three short beeps sound when testing is complete. The screen will display measurements for systolic and diastolic blood pressure.



Note: Refer to Page 43 for detail Blood Pressure Informations.

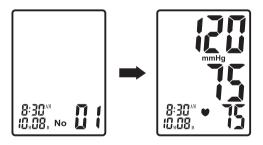
Power Off

The "①" start/stop button can be pressed to turn off the unit in any mode. The unit can turn off the power itself about 3 minutes if no operation in any mode.

Safety Precaution: If pressure in arm cuff becomes too extreme while testing, press the " () " start/stop button to turn power off. The cuff pressure will rapidly dissipate once the unit is off.

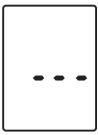
Memory Check

With power off, press and hold "MEM" button to turn the unit on.The LCD will display the last measurement memory as NO:01 reading. Older test result in memory can be viewed by pressing the "MEM" button.



Memory Deletion

While in memory check mode. Press " () " start/stop and hold on for about 3 seconds to delete all history results and the LCD screen display " - - " with beep sounds. Then press " (i) " start/stop button to turn off the unit.



Note: Memory cannot be recovered once it has been deleted.

Low Battery Indicator

4 short warning beeps sound when battery life is depleting and unable to inflate cuff for testing. The " Tappears simultaneously for approximately 5 seconds prior to shutting off. Replace batteries at this time. No memory loss will occur throughout this process.



Troubleshooting

Problem	Possible Cause	Solution				
Blood pressure results are not within typical range	Cuff is too tight or not properly positioned on the arm	Firmly reposition cuff approximately 1-2cm (½") above the elbow joint (See Page 37)				
	Inaccurate test results due to body movement or monitor movement	Sit in a relaxed position with arm placed near heart. Avoid speaking or moving body parts while testing. Make sure the monitor unit is placed in a stationary position throughout the testing period. (See Page 34)				
	Cuff fails to inflate properly	Make sure hose is properly fastened to cuff and monitor unit				
" Err "displayed	Improper operation	Read user manual carefully and re-test properly.				
	Pressurization is over 300mmHg	Read user manual carefully and re-test properly.				

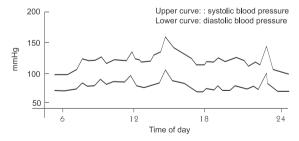
Blood Pressure Information

Blood Pressure

Blood pressure is the force of blood pushing against the walls of arteries. It is typically measured in millimeters of mercury (mmHg.) Systolic blood pressure is the maximum force exerted against blood vessel walls each time the heart beats. Diastolic blood pressure is the force exerted on blood vessels when the heart is resting between beats.

An individual's blood pressure frequently changes throughout the course of a day. Excitement and tension can cause blood pressure to rise, while drinking alcohol and bathing can lower blood pressure. Certain hormones like adrenaline (which your body releases under stress) can cause blood vessels to constrict, leading to a rise in blood pressure.

If these measuring numbers become too high, it means the heart is working harder than it should.

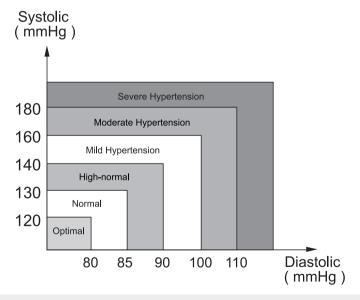


Example: fluctuation within a day (male, 35 years old)

Blood Pressure Information

Health Reminder

Hypertension is a dangerous disease that can affect the quality of life. It can lead to a lot of problems including heart failure, kidney failure, and cerebral hemorrhaging. By maintaining a healthy lifestyle and visiting your physician on a regular basis, hypertension and relative diseases are much easier to control when diagnosed in their early stages.



Note: Do not be alarmed if an abnormal reading occurs. A better indication of an individual's blood pressure occurs after 2-3 readings are taken at the same time each day over an extended period of time. Consult your physician if test results remain abnormal.

- Q: What is the difference between measuring blood pressure at home or at a professional healthcare clinic?
- A: Blood pressure readings taken at home are now seen to give a more accurate account as they better reflect your daily life. Readings can be elevated when taken in a clinical or medical environment. This is known as White Coat Hypertension and may be caused by feeling anxious or nervous.

Note: Abnormal test results may be caused by:

1. Improper cuff placement

Make sure cuff is snug-not too tight or too loose.

Make sure bottom of the cuff is approximately 1-2cm (1/2") above the elbow ioint.

2. Improper body position

Make sure to keep your body in an upright position.

3. Feeling anxious or nervous

Take 2-3 deep breaths, wait a few minutes and resume testing.

- Q: What causes different readings?
- A: Blood pressure varies throughout the course of a day. Many factors including diet, stress, cuff placement, etc. may affect an individual's blood pressure.
- Q: Should I apply the cuff to the left or right arm? What is the difference?
- A: Either arm can be used when testing, however, when comparing results, the same arm should be used. Testing on your left arm may provide more accurate results as it is located closer to your heart.
- Q: What is the best time of day for testing?
- A: Morning time or any time you feel relaxed and stress free.

Maintenance

1. Avoid dropping, slamming, or throwing the unit.



2. Avoid extreme temperatures. Do not expose unit directly under sunshine.



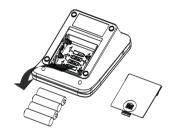
When cleaning the unit, use a soft fabric and lightly wipe with mild detergent.Use a damp cloth to remove dirt and excess detergent.



- 4. Cuff Cleaning: Do not soak cuff in water! Apply a small amount of rubbing alcohol to a soft cloth to clean cuff's surface. Use a damp cloth (water-based) to wipe clean. Allow cuff to dry naturally at room temperature.
- 5. Do not use petrol, thinners or similar solvents.



6. Remove batteries when not in operation for an extended period of time.



7. Do not disassemble product.



- 8. It is recommended the performance should be checked every 2 years.
- 9. Expected service life: Approximately three years at 10 tests per day.

Specifications

Product Description	Arm-type Fully Automatic Digital Blood Pressure Monitor						
Model	KS 520						
Display	LCD Digital Display Size: 62.7mm×46.4mm (2.47" x 1.83")						
Measurement Method	Oscillometric Metho	od					
Measurement Range	Pressure	0mmHg~300mmHg					
ivieasurement reange	Pulse	30 to 180 Beats/Minute					
Measurement Accuracy	Pressure	± 3mmHg					
Wiedsurement Accuracy	Pulse	± 5%					
Pressurization	Automatic Pressurization						
Memory	120 Memories						
Function	Low Battery Detection						
Function	Automatic Power-Off						
Power Source	4 AA batteries or Medical AC Aadapter(DC6.0V, 600mA)						
Battery Life	Approximately 2 months at 3 tests per day						
Unit Weight	Approx.360g (12.7oz.) (excluding battery)						
Unit Dimensions	Approx.134 x 99 x 66mm (5.27" x 3.92" x 2.61")(L x W x H)						
Cuff Circumference	Approx.135 (W)×485(L) mm (Medium cuff: Fits arm circumference 22-36 cm)						
	Temperature	10°C ~ 40°C (50 °F ~104 °F)					
Operating Environment	Humidity	15% ~90%RH					
	Pressure	Atmospheric Pressure					

Specifications

Storage Environment	Temperature:	-20°C~55°C (-4°F~131°F)						
Storage Environment	Humidity 15% ~90%RH							
Ingress Protection Rating	IP 22	IP 22						
Classification:	Internal Powered Equipment, Type BF 🛣, Cuff is the Applied Part							

Specifications are subject to change without notice.

This Blood Pressure Monitor complies with the European regulations and bears the CE mark "CE 0120". This blood pressure monitor also complies with mainly following standards (included but not limited):

Safety standard:

EN 60601-1 Medical electrical equipment part 1: General requirements for safety EMC standard:

EN 60601-1-2 Medical electrical equipment part 1-2: General requirements for safety- Collateral standard: Electromagnetic compatibility- Requirements and tests Performance standards:

EN 1060-1 Non-invasive sphygmomanometers - General requirements

EN 1060-3 Non-invasive sphygmomanometers - Supplementary requirements for electromechanical blood pressure measuring systems.

EN 1060-4 Non-invasive sphygmomanometers - Test procedures to determine the overall system accuracy of automated non-invasive sphygmomanometers.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



This marking shown on the product indicates that it should not be disposed with other household waste at the end of its life. To prevent potential harm to the environment or to human health, please separate this product from other types of wastes and recycle it responsibly. When disposing this type of product, contact the retailer where product was purchased or contact your local government office for details regarding how this item can be disposed in an environmentally safe recycling center.

Business users should contact their supplier and check the terms and conditions of the purchasing agreement. This product should not be mixed with other commercial wastes for disposal. This product is free of hazardous materials.

Warranty

The function of the device is guaranteed for 5 years from date of purchase.

For accurate time coverage of each of the parts as well as the guarantee conditions please see the warranty card accompanying the device.

Additionally you can contact your local distributor for more details regarding warranty and servicing this device.

Blood Pressure Chart

Name :		Age :	We	eight	:
Date					
Time					
mmHg					
220					
200					
180					
160					
140					
120					
120					
100					
80					
60					
Pulse					
Body Condition					

Blood Pressure Chart

Name :			Ag	e :	We	eight	:
Date							
Time							
mmHg							
220							
200							
180							
160							
140							
120							
120							
100							
80							
60							
Pulse							
Body Condition							