

# Owner's Manual

## Automatic Blood Pressure Monitor Upper Arm Model

MODEL BP3600



Drive Medical  
99 Seaview Blvd  
Port Washington, NY 11050  
Toll-Free 877-224-0946  
www.drivemedical.com

**drive**<sup>™</sup>

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### Safety Notice

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Thank you for purchasing the BP3600 Blood Pressure Monitor. The unit has been constructed using reliable circuitry and durable materials. Used properly, this unit will provide years of satisfactory use.

The device is intended for use by individuals 12 years and older to measure the systolic and diastolic blood pressure and pulse rate. All values can be read out in one LCD DISPLAY. Measurement position is on adult upper arm only.




Blood pressure measurement determined with this device are equivalent to those obtained by a trained observer using the cuff/ stethoscope auscultation method, within the limits prescribed by the American National Standard (ANSI/AAMI Sp10) for electronic sphygmomanometers.

#### Precautions to Ensure Safe, Reliable Operation

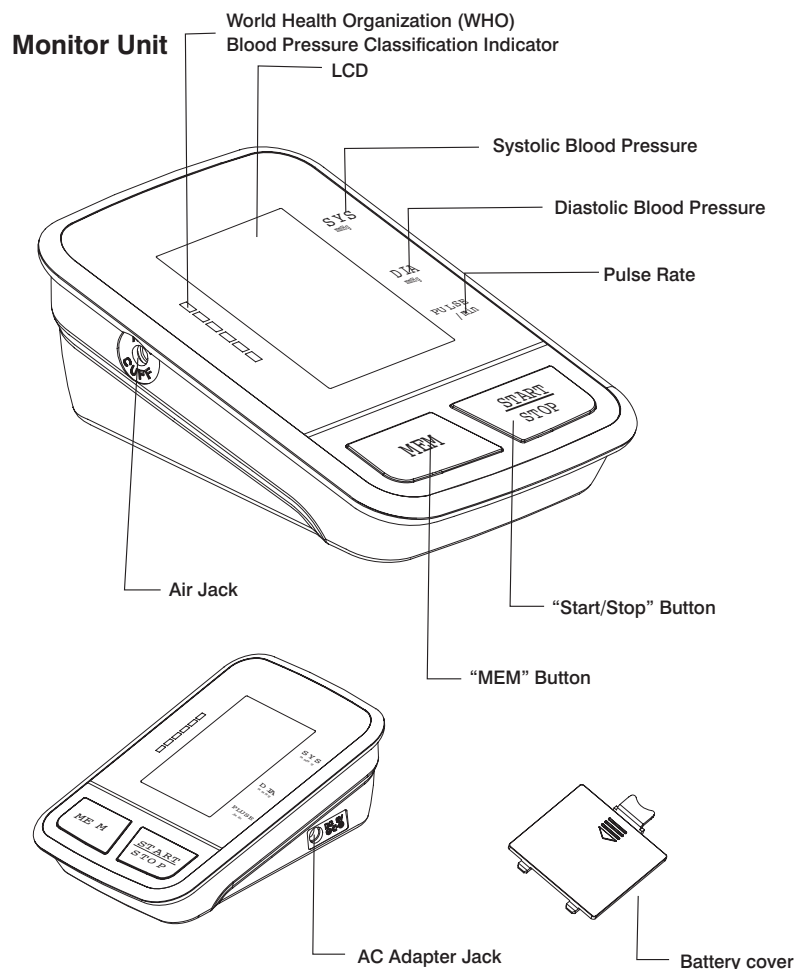
1. Do not drop the unit. Protect it from sudden jars or shocks.
2. Do not insert foreign objects into any openings.
3. Do not attempt to disassemble the unit.
4. Do not crush the pressure cuff.
5. If the unit has been stored at temperatures below 0°C, leave it in a warm place for about 15 minutes before using it. Otherwise, the cuff may not inflate properly.
6. Do not store the unit in direct sunlight, high humidity or dust.
7. To avoid any possibility of accidental strangulation, keep this unit away from children and do not drape tubing around your neck.
8. Ensure that children do not use the instrument unsupervised; some parts are small enough to be swallowed.
9. Some may get a skin irritation from the cuff taking frequent readings over the course of the day, but this irritation typically goes away on its own after the monitor is removed.

## Important Instructions Before Use

1. Do not confuse self-monitoring with self-diagnosis. Blood pressure measurements should only be interpreted by a health professional who is familiar with your medical history.
2. Contact your physician if test results regularly indicate abnormal readings.
3. If you are taking medication, consult with your physician to determine the most appropriate time to measure your blood pressure. NEVER change a prescribed medication without first consulting with your physician.
4. Individuals with serious circulation problems may experience discomfort. Consult your physician prior to use.
5. For persons with irregular or unstable circulation resulting from diabetes, liver disease, arteriosclerosis or other medical conditions, there may be variations in blood pressure values measured at the wrist versus at the upper arm. Monitoring the trends in your blood pressure taken at either the arm or the wrist is nevertheless useful and important.
6. People suffering from vascular constriction, liver disorders or diabetes, people with cardiac pacemakers or a weak pulse, and women who are pregnant should consult their physician before measuring their blood pressure themselves. Different values may be obtained due to their condition.
7. People suffering from arrhythmias such as atrial or ventricular premature beats or atrial fibrillation only use this blood pressure monitor in consultation with your doctor. In certain cases oscillometric measurement method can produce incorrect readings.
8. Too frequent measurements can cause injury to the patient due to blood flow interference.
9. The cuff should not be applied over a wound as this can cause further injury.
10. DO NOT attach the cuff to a limb being used for IV infusions or any other intravascular access, therapy or an arterio-venous (A-V) shunt. The cuff inflation can temporarily block blood flow, potentially causing harm to the patient.
11. The cuff should not be placed on the arm on the side of a mastectomy. In the case of a double mastectomy use the side of the least dominant arm.
12. Pressurization of the cuff can temporarily cause loss of function of simultaneously used monitoring equipment on the same limb
13. A compressed or kinked connection hose may cause continuous cuff pressure resulting in blood flow interference and potentially harmful injury to the patient.
14. Check that operation of the unit does not result in prolonged impairment of the circulation of the patient.
15. Product is designed for its intended use only. Do not misuse in any way.
16. Product is not intended for infants or individuals who cannot express their intentions.
17. Any hazards associated with prolonged overinflation of the bladder.
18. Do not disassemble the unit or arm cuff. Do not attempt to repair.
19. Use only the approved arm cuff for this unit. Use of other arm cuffs may result in incorrect measurement results.

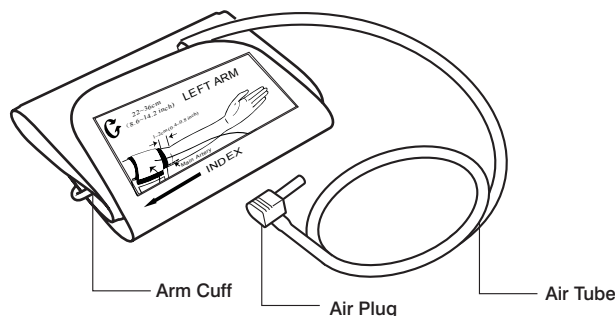
20. The system might produce incorrect readings if stored or used outside the manufacturer's specified temperature and humidity ranges.
21. Do not use cell phones and other devices, which generate strong electrical or electromagnetic fields, near the device, as they may cause incorrect readings and interference or become interference source to the device.
22. Do not mix new and old batteries simultaneously
23. Replace batteries when Low Battery Indicator  appears on screen. Replace both batteries at the same time.
24. Do not mix battery types. Long-life alkaline batteries are recommended.
25. Remove batteries from device when not in operation for more than 3 months.
26. Do not insert the batteries with their polarities incorrectly aligned.
27. Dispose batteries properly; observe local laws and regulations.
28. Only use a recommended AC adapter complying with EN 60601-1 and EN 60601-1-2. An unauthorized adapter may cause fire and electric shock.
29.  Refer to instruction manual/ booklet symbol.
30.  Refer to keep dry.

## Unit Illustration



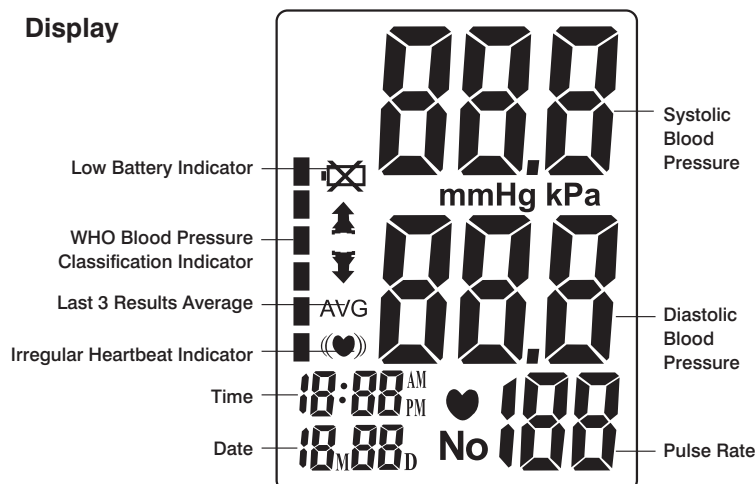
## Unit Illustration

**Arm Cuff** Medium size cuff (fits arm circumference: 22.0 cm -36.0 cm).

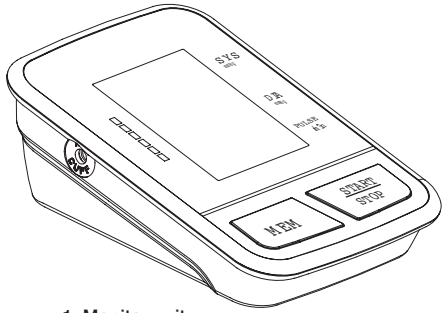


If air is leaking from the arm cuff, replace the arm cuff with a new one. It is generally recommended to have the cuff replaced timely to ensure correct functioning and accuracy. Please consult your local authorized distributor or dealer.

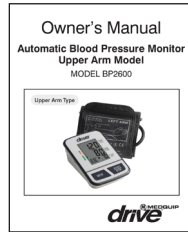
## Display



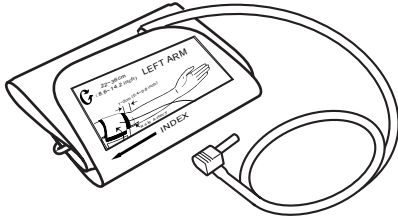
Contents



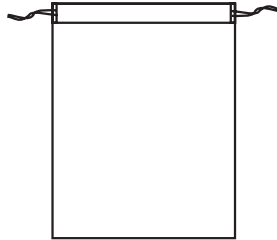
1. Monitor unit



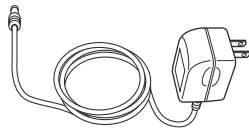
2. Owner's Manual



3. Arm Cuff



4. Storage Bag



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

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.
3. 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.
5. 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.
8. 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.

**Any blood pressure recording can be affected by the following factors:**

1. The position of the subject, his or her physiologic condition;
2. The performance and accuracy of the device;
3. Cuff size: too small cuff (bladder) will produce a higher blood pressure value than usual, too big cuff (bladder) will produce a lower blood pressure value;
4. Measuring position does not keep level with your heart;
5. Speaking or moving body parts while testing;
6. Not relaxing for about 5 minutes before taking the measurement.

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

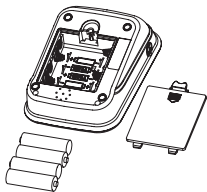


Figure A

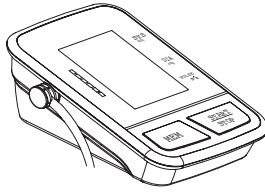


Figure B

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



Figure C

5. Apply cuff to your left arm and middle of the cuff at the level of your heart. Bottom of cuff should be placed approximately 1-2cm (1/2") above elbow joint. (See Figures D&E)

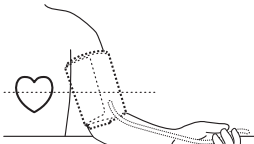


Figure D

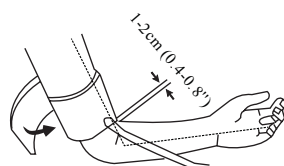
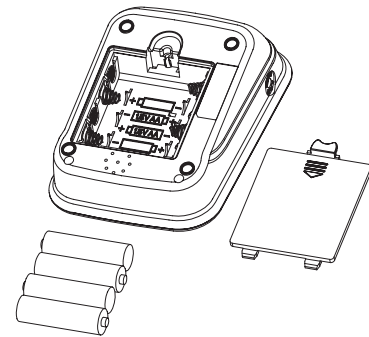


Figure E

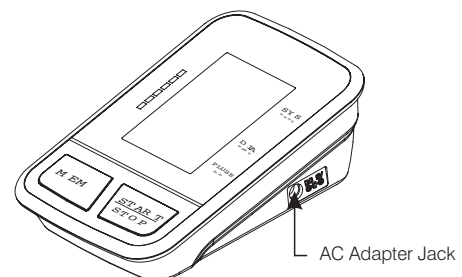
6. Press "START/STOP" Button to start testing.

Battery Installation

Slide battery cover off as indicated by arrow.  
Install 4 new AAA alkaline batteries according to polarity.  
Close battery cover.



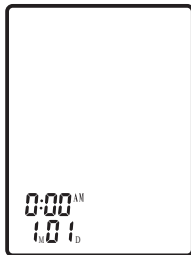
AC Adapter jack is on the right side of the monitor. Medical AC adapter(DC 6.0 V,600mA) can be used with the device (recommended, not provided). The adapter connect pin should be positive inside and negative outside with a 2.1mm coaxial joint. Do not use another type of AC adaptor as it may harm the unit.



## Time/Date Setting

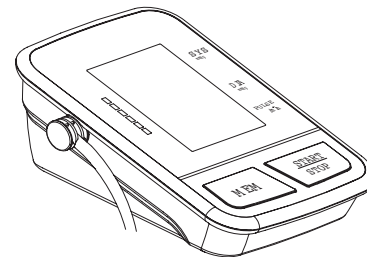
With power off, press "START/STOP" button about 3 seconds to set the Time/Date mode. Set month first by adjusting the "MEM" button, Press "STOP/START" button setting the day, hour, and minute in same way. Which in any setting mode. Press "START/ STOP" button about 3 seconds to turn the unit off. All 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 .

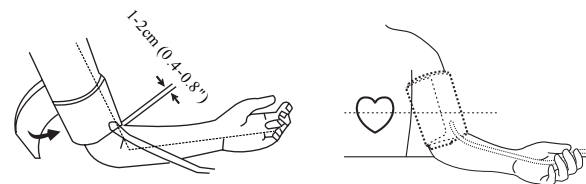


## Applying the Arm Cuff

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



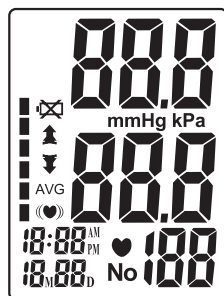
2. With sticky nylon section facing outward, insert end of cuff underneath metal ring of cuff.  
3. Fasten cuff about 1-2cm (0.4-0.8") above the elbow joint. For best results apply cuff to bare arm and keep level with heart while testing.



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.

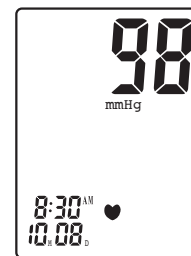


Note: Unit will not function if residual air from previous testing is present in cuff. The LCD will flash "↓" until pressure is stabilized.

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

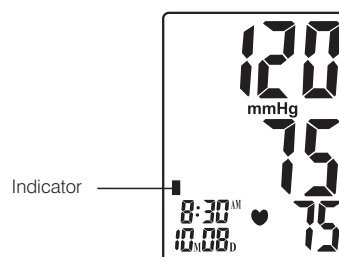


3. Testing  
After cuff inflation, air will slowly subside as indicated by the corresponding cuff pressure value. A flashing "♥" will appear simultaneously on screen signaling heart beat detection.



Note: Remain 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 18~19 for detail WHO Blood Pressure Classification Information

Irregular Heartbeat Indicator

If the monitor detects an irregular heart rhythm two or more times during the measuring process, the Irregular Heartbeat Symbol ((♥)) appears on screen along with measurement results. Irregular heartbeat rhythm is defined as rhythm that is either 25% slower or faster than the average rhythm detected while measuring systolic blood pressure and diastolic blood pressure. Consult your physician if the Irregular Heartbeat Symbol ((♥)) frequently appears with your test results.

5.Storing Test Results

It will automatically store by date .If the number of tests surpasses the allotted 120 memories , the most recent tests will appear first , thus eliminating the oldest readings.

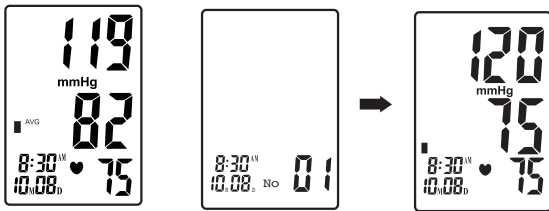
Power Off

The "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

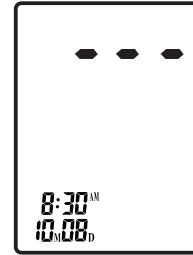
With power off, press and hold MEM button to turn the unit on. The LCD will display the average test results from the last 3 readings. Press MEM button again, the LCD will display the last measurement memory as NO: 01 reading. Older test result in memory can be viewed by pressing the MEM button.



Note: If the memory is less than 3 groups , press the "MEM" button to display the last group.

Memory Deletion

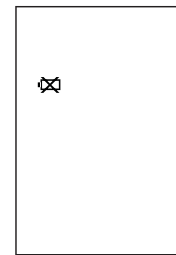
Which in memory check made. Press and hold on for about 3 seconds to delete all history results and the LCD screen display " - - - " with beep sounds. Then press " START/ STOP" button to turn off the unit.



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 "⊗" appears simultaneously for approximately 5 seconds prior to shutting off. Replace batteries at this time. No memory loss will occur throughout this process.



Troubleshooting

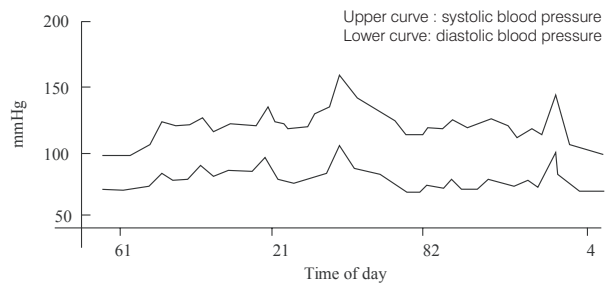
Problem	Possible Cause	Solution
Blood pressure results are not within typical range	Cuff is too tight or not properly positioned on the arm	Firmly reposition cuff approximately 1-2cm (1/2") above the elbow joint (See Page 11)
	Inaccurate test results due to body movement or monitor movement	Sit in a 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 8)
" Err " displayed	Cuff fails to inflate properly	Make sure hose is properly fastened to cuff and monitor unit
	Improper operation	Read user manual carefully and re-test properly.
	Pressurization is over 300mmHg	Read user manual carefully and re-test properly.

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.

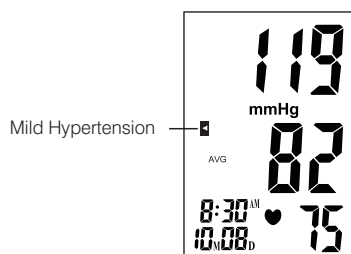
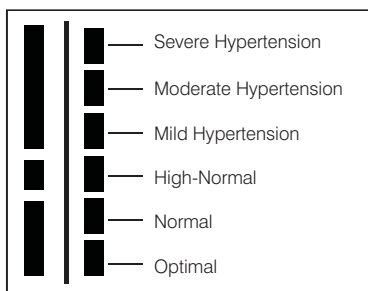
If these measuring numbers become too high, it means the heart is working harder than it should.



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

## WHO Blood Pressure Classification Indicator

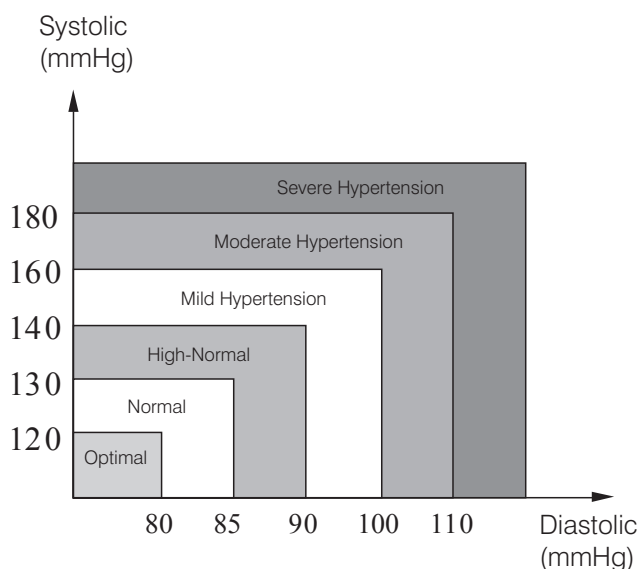
The BP3600 is equipped with a classification indicator based on established guidelines from the World Health Organization. The chart below (color coded on monitor unit) indicates test results.



◀ - Blood Pressure Classification Indicator

## 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.

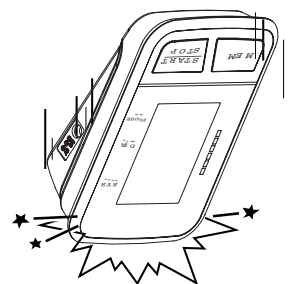
- Q: What is the difference between measuring blood pressure at home or at a professional healthcare clinic?
- A: Blood pressure readings taken at home are now seen to give a more accurate account as they better reflect your daily life. Readings can be elevated when taken in a clinical or medical environment.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

Note: Abnormal test results may be caused by:

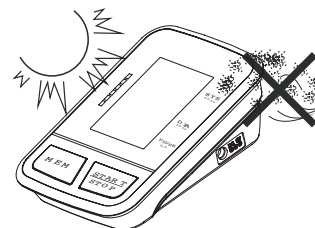
- Improper cuff placement  
Make sure cuff is snug-not too tight or too loose.  
Make sure bottom of the cuff is approximately 1-2cm (1/2") above the elbow joint.
- Improper body position  
Make sure to keep your body in an upright position.
- Feeling anxious or nervous  
Take 2-3 deep breaths, wait 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.

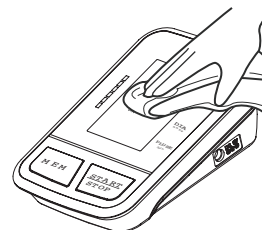
- Avoid dropping, slamming, or throwing the unit.



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



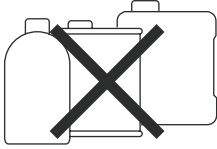
- When cleaning the unit, use a soft fabric and lightly wipe with mild detergent. Use a damp cloth to remove dirt and excess detergent.



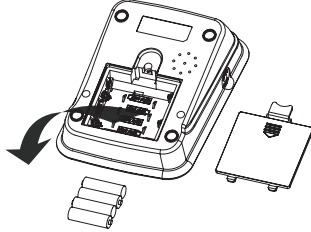
## Maintenance

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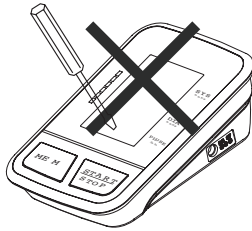
- Cuff Cleaning: Do not soak cuff in water! Apply a small amount of rubbing alcohol to a soft cloth to clean cuff's surface. Use a damp cloth (water-based) to wipe clean. Allow cuff to dry naturally at room temperature.
- Do not use petrol, thinners or similar solvents.



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




- Do not disassemble product.



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

## Specifications

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Product Description	Automatic Blood Pressure Monitor, Upper Arm Model	
Model	BP3600	
Display	LCD Digital Display	Size: 62.3mm×46.0mm (2.45" x 1.81")
Measurement Method	Oscillometric Method	
Measurement Range	Pressure	0mmHg ~ 300mmHg
	Pulse	30 to 180 Beats/Minute
Measurement Accuracy	Pressure	±3mmHg
	Pulse	±5%
Pressurization	Automatic Pressurization	
Memory	120 Memories	
Function	Irregular Heartbeat Detection	
	WHO Classification Indicator	
	Last 3 Tests Average	
	Low Battery Detection	
	Automatic Power-Off	
Power Source	4 AAA batteries or Medical AC Adapter (DC6.0V, 600mA) (recommended, not provided)	
Battery Life	Approximately 2 months at 3 tests per day	
Unit Weight	Approx. 340g (11.99 oz.) (excluding battery)	
Unit Dimensions	Approx. 140 x 98 x 48mm (5.51" x 3.86" x 1.89") (L x W x H)	
Cuff Circumference	Approx. 135 (W) × 485 (L) mm (Medium cuff: Fits arm circumference 22-36 cm)	
Operating Environment	Temperature	10°C ~ 40°C (50°F ~ 104°F)
	Humidity	15% ~ 90%RH
	Pressure	Atmospheric Pressure
Storage Environment	Temperature	-20°C ~ 55°C (-4°F ~ 131°F)
	Humidity	15% ~ 90%RH
Classification	Internal Powered Equipment, Type BF  Cuff is the Applied Part	

Specifications are subject to change without notice.

## Specifications

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International Standards:

- AAMI / ANSI SP10:2002/(R) 2008 & 2002/A1:2003/(R)2008 & 2002/A2:2006/(R)2008 Manual, electronic, or automated sphygmomanometers
- European Directive 93/42 EEC for Medical Products Act
- EN 60601-1 Medical electrical equipment part 1: General requirements for safety
- EN 60601-1-2 Medical electrical equipment part 1-2: General requirements for safety- Collateral standard: Electromagnetic compatibility- Requirements and tests
- 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

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The Blood Pressure Monitor has been carefully manufactured and inspected and is warranted to be free from defectives in workmanship and materials. Under this warranty, Drive Medical's obligation shall be limited to the replacement of any such units which prove, by Drive Medical's inspection, to be defective within two years from the original purchase date. If you have to send in the unit enclose a copy of your receipt and clearly state the defect. This warranty is not transferrable or assignable to any subsequent purchaser or owner. Any abuse, operation other than the intended use of this product as outlined in the manual, negligence, accident, or repairs by someone, shall immediately void this warranty.

The foregoing warranty is exclusive and in lieu of all other expressed warranties. Implied warranties, if any, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, shall not extend beyond the duration of the express warranty provided herein. In no event shall Drive Medical or its subsidiaries be liable for loss of use or profit or other collateral, special or consequential damages.