



Designer Professional Combo Kit with Aneroid Blood Pressure Unit and Sprague-Style Stethoscope Model 100-040 User Manual

Read this manual before operating the Designer Professional Combo Kit. Save this manual for future reference.

CONTENTS

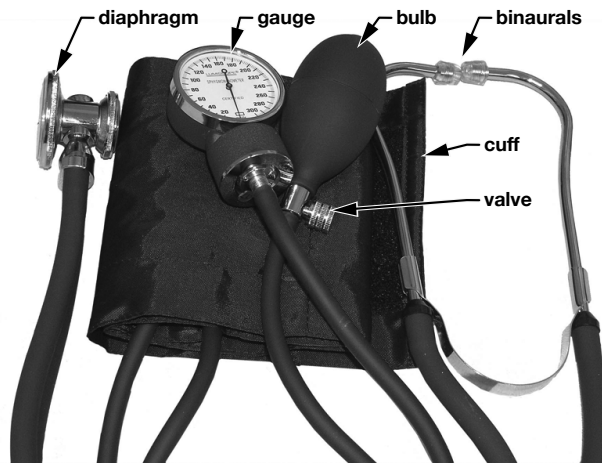
SAFETY GUIDELINES - PLEASE READ BEFORE USE	1
INTENDED USE.....	1
BLOOD PRESSURE.....	2
MAINTENANCE.....	3
WARRANTY.....	4

SAFETY GUIDELINES - PLEASE READ BEFORE USE

- ⚠ **WARNING:** Important! Read and understand these instructions before installing or using the Lumiscope Designer Professional Combo Kit. If you do not understand any part of these instructions, contact your medical professional or Graham-Field authorized distributor for direction in the use of this product.
- ⚠ **WARNING:** If components are damaged or missing, contact your Graham-Field distributor immediately. **DO NOT** use substitute parts.
- ⚠ **WARNING:** Notice for California Customers- California Proposition 65 **WARNING:** This product contains a chemical known to the State of California to cause cancer and reproductive or developmental harm.
- ⚠ **WARNING:** GF Health Products, Inc. assumes no responsibility for any damage or injury caused by improper installation or use of this product.

INTENDED USE

The Lumiscope Designer Professional Combo Kit, shown on the next page, is intended to measure arterial blood pressure.



**100-040
Aneroid Sphygmomanometer
with Sprague-Style Stethoscope**

BLOOD PRESSURE

Blood Pressure is a measure of the blood's pressure in the circulatory system, which changes constantly during the course of the cardiac cycle. Blood pressure readings report two values. The higher reading (**systemic pressure**) shows the highest pressure in the arteries occurring when the heart contracts. The lower reading (**diastolic pressure**) shows the lowest pressure in the arteries, which occurs right before the heart contracts. Blood pressure readings are written with the highest value first, then the lowest value. Readings of 120/80 are considered to be normal, with high blood pressure being defined as a systolic pressure which is 140mmHg or more at rest and a diastolic pressure which is 90mmHg or more at rest. Only a patient's physician is qualified to determine whether the readings obtained are normal for that person.

Measuring blood pressure: Have the patient, while relaxed and in a sitting position, extend the arm from which the blood pressure will be taken to the front or laterally with the palm of the hand up.

Attach the cuff and diaphragm: Place the cuff approximately one inch above the bend of the elbow against the skin of the upper arm with the artery marker placed on top of the brachial artery. **Never place the cuff over clothing.** Wrap the cuff around the arm and secure the cuff with the "touch and hold" strap (If the cuff has a metal D-shaped ring, pull the free end of the cuff through the D-ring and close the cuff with the "touch and hold" strap). The cuff should be snug, but not too tight. If one or two fingers can fit between the cuff and the arm, the cuff is properly secured. Place the diaphragm of the stethoscope over the brachial artery inferior to the cuff.

Inflating the cuff: Close the bulb’s air valve by turning the air release valve clockwise. Squeeze the inflation bulb at a steady rate until the gauge’s needle points at approximately 30mmHg above the individual’s normal systolic pressure value. If the individual’s normal blood pressure is not known, it is recommended to inflate to 200mmHg.

Systolic blood pressure reading: Open the air release valve slowly by turning it counter-clockwise while holding the diaphragm of the stethoscope over the brachial artery. Proper deflation rate is vital for an accurate reading. The recommended deflation rate is 2-3mmHg per second, or a drop of one to two marks on the pressure gauge with each heartbeat. **Do not keep the cuff inflated any longer than necessary.** As the cuff begins to deflate, listen carefully with the stethoscope. Note the reading on the gauge as soon as a faint, rhythmic tapping or thumping sound is heard. The first sound is the systolic pressure reading. Always check with your health care provider to ensure readings are performed correctly.

Diastolic blood pressure reading: Allow the pressure to continue dropping at the same deflation rate. Note the reading on the gauge when the last audible thumping, swishing, or blowing sound is heard; this is the diastolic blood pressure reading. After a few seconds have passed and no audible thumping, swishing, or blowing sounds are heard, deflate the cuff using the air release valve completely. Remove the cuff and stethoscope from the arm.

Record the systolic and diastolic readings. Repeat the measurement two or more times to ensure accuracy. Only a patient’s physician is qualified to analyze blood pressure.

MAINTENANCE

Recommended care and maintenance:

Do not drop or pull excessively on the blood pressure unit or stethoscope components.	
Never inflate beyond 300mmHg.	
Do not expose this product to direct sunlight.	
Do not place this product in contact with sharp objects which could pierce the material and cause damage.	
Do not dismantle or disassemble this product.	
Cleaning	Wipe off the blood pressure unit, stethoscope and bulb with a clean, damp cloth.
	Wash the cuff with soap and cold water, rinse and air dry.
Storage	Always deflate the cuff completely before storage.
	Store the complete instrument in the provided storage case.

WARRANTY

GF Health Products, Inc. guarantees the Designer Professional Combo Kit with Aneroid Blood Pressure Unit and Sprague-Style Stethoscope Model 100-040 free from defects in material and workmanship for a period of two years from the date of purchase when used for the purpose intended, under normal conditions, and provided the product receives proper care and maintenance. If within such warranty period any such product shall be proven to be defective, such product shall be repaired or replaced, at Graham-Field's option. The warranty does not include any labor charges incurred in replacement part(s) installation or any associated freight or shipping charges to the manufacturer. Graham-Field's sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

The warranties contained herein contain all the representations and warranties with respect to the subject matter of this document, and supersede all prior negotiations, agreements and understandings with respect thereto. The recipient of this document hereby acknowledges and represents that it has not relied on any representation, assertion, guarantee, warranty, collateral contract or other assurance, except those set out in this document.

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