

ADC 703-7IOR

ADC Diagnostix 703 Palm Aneroid Sphygmomanometer Infant User Manual

Model: 703-7IOR

1. INTRODUCTION

This manual provides essential instructions for the proper use, setup, maintenance, and troubleshooting of your ADC Diagnostix 703 Palm Aneroid Sphygmomanometer. This device is designed for accurate blood pressure measurement in infants. Please read this manual thoroughly before use to ensure safe and effective operation.

2. PRODUCT COMPONENTS

The ADC Diagnostix 703 Palm Aneroid Sphygmomanometer package includes the following components:

- Palm-style manometer with integral latex-free bulb
- Trigger-style air release valve
- Adcuff nylon cuff (Infant Size 7)
- Dip molded inflation bladder



Figure 1: ADC Diagnostix 703 Palm Aneroid Sphygmomanometer. This image shows the complete device, including the gray manometer with a black dial, the black inflation bulb, and the orange infant-sized cuff with "ADCUFF Reusable BP Cuff Infant 7" printed on it.

3. SETUP AND PREPARATION

1. **Inspect Components:** Before each use, visually inspect the cuff, tubing, bulb, and manometer for any signs of damage, cracks, or leaks. Do not use the device if any component is damaged.
2. **Cuff Attachment:** Ensure the inflation bladder is correctly inserted into the cuff sleeve. The tubing should be securely connected to the manometer.
3. **Patient Positioning:** Ensure the infant is calm and comfortably positioned. The arm chosen for measurement should be supported at heart level.
4. **Cuff Placement:** Wrap the infant cuff snugly around the infant's upper arm, ensuring the artery mark on the cuff aligns with the brachial artery. The cuff's Size Guide marking system helps prevent mis-cuffing; ensure the index line falls within the range indicated on the cuff.

4. OPERATING INSTRUCTIONS

Follow these steps for accurate blood pressure measurement:

1. **Close Air Release Valve:** Ensure the trigger-style air release valve is fully closed by rotating it clockwise.
2. **Inflate Cuff:** Rapidly inflate the cuff by squeezing the bulb until the manometer reads approximately 20-30 mmHg above the expected systolic pressure, or until the radial pulse is no longer palpable.
3. **Deflate Cuff:** Slowly open the air release valve by rotating it counter-clockwise, allowing the pressure to drop at a rate of 2-3 mmHg per second.
4. **Readings:**
 - **Systolic Pressure:** Note the reading on the manometer when the first clear, tapping sound (Korotkoff sound) is heard.
 - **Diastolic Pressure:** Note the reading when the sounds disappear completely.
5. **Complete Deflation:** Fully open the air release valve to completely deflate the cuff.

6. **Repeat Measurement:** If a second measurement is required, wait at least 1-2 minutes before re-inflating the cuff to allow blood flow to normalize.

5. MAINTENANCE AND CARE

- **Cleaning:**
 - **Cuff:** The nylon cuff can be cleaned with a damp cloth and mild detergent. Allow to air dry completely. Do not machine wash or tumble dry.
 - **Manometer and Bulb:** Wipe the manometer and bulb with a soft, damp cloth. Do not immerse in water or use harsh chemical cleaners.
- **Storage:** Store the sphygmomanometer in a clean, dry place at room temperature, away from direct sunlight and extreme temperatures.
- **Calibration:** The precision-crafted manometer is designed for long-term accuracy. However, it is recommended to have the device checked for calibration periodically by qualified personnel, or if accuracy is suspected to be compromised.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Cuff does not inflate or inflates slowly.	Air release valve is open; Leak in cuff, tubing, or bulb; Loose connection.	Ensure valve is closed; Check for visible damage and replace components if necessary; Secure all connections.
Manometer needle does not return to zero.	Manometer requires calibration or is damaged.	Contact ADC customer support for service or calibration.
Inaccurate readings.	Incorrect cuff size; Improper cuff placement; Patient movement; Manometer out of calibration.	Ensure correct infant cuff size (Size 7); Re-position cuff correctly; Ensure infant is still; Have manometer calibrated.

7. SPECIFICATIONS

- **Model:** 703-7IOR
- **Manometer:** Precision crafted 300 mmHg no-pin stop
- **Cuff Type:** Adcuff nylon cuff, Infant Size 7 (9-14 cm)
- **Bulb:** Integral latex-free bulb
- **Valve:** Trigger-style air release valve
- **Casing:** Patented double shell ABS impact resistant polymer casing
- **Display Type:** Analog
- **Item Weight:** Approximately 12.64 ounces (358 grams)

8. WARRANTY AND SUPPORT

For specific warranty information, please refer to the warranty card included with your product or visit the official ADC website. For technical support, replacement parts, or service inquiries, please contact ADC customer service. Contact details can typically be found on the product packaging or the manufacturer's website.

You can visit the ADC Store for more information: [ADC Official Store](#)

