

Omron 416-22-BLK

Omron Sprague Rappaport Stethoscope (Model 416-22-BLK) Instruction Manual

Comprehensive guide for setup, operation, and maintenance of your Omron Sprague Rappaport Stethoscope.

INTRODUCTION

Thank you for choosing the Omron Sprague Rappaport Stethoscope. This manual provides essential information for the proper setup, operation, and maintenance of your stethoscope. Please read these instructions carefully before use to ensure accurate performance and longevity of the device.

The Omron Sprague Rappaport Stethoscope is a versatile diagnostic instrument designed for auscultation of heart, lung, and bowel sounds. Its unique design allows for customization with various chestpiece attachments and eartips to suit different diagnostic needs.

COMPONENTS OVERVIEW

Your Omron Sprague Rappaport Stethoscope comes with several interchangeable components to optimize its functionality:

- **Chestpiece:** A chrome-plated, dual-head design that can be configured with different bells and diaphragms.
- **Tubing:** Latex-free dual tubing for clear sound transmission.
- **Headset:** Chrome-plated binaurals with comfortable eartips.
- **Interchangeable Bells:** Three sizes of open bells for low-frequency sounds.
- **Interchangeable Diaphragms:** Two sizes of diaphragms for high-frequency sounds.
- **Eartips:** Two pairs of soft eartips for comfortable fit and acoustic seal.



Image: The Omron Sprague Rappaport Stethoscope with its various interchangeable components, including different sized bells, diaphragms, and eartips.

SETUP AND ASSEMBLY

The Sprague Rappaport stethoscope offers versatility through its interchangeable chestpiece components. Follow these steps to set up your stethoscope:

1. **Attach Eartips:** Select a pair of eartips that provide a comfortable and secure fit. Gently push them onto the binaural tubes until they are firmly seated. Ensure a tight seal to prevent sound leakage.
2. **Adjust Binaurals:** The binaural tubes are designed to be angled forward, aligning with the ear canals. Gently adjust the tension of the binaurals by pulling them apart or pushing them together until they fit snugly but comfortably in your ears.
3. **Select Chestpiece Attachment:**
 - For high-frequency sounds (e.g., lung sounds, adult heart sounds), attach one of the diaphragms.
 - For low-frequency sounds (e.g., some heart murmurs, bowel sounds), attach one of the open bells. Choose the appropriate size (adult, medium, or infant) based on the patient.

To attach, align the chosen bell or diaphragm with the threaded end of the chestpiece stem and screw it on clockwise until secure.

4. **Activate the Desired Side:** The Sprague Rappaport chestpiece is dual-sided. To activate the desired side (diaphragm or bell), rotate the stem 180 degrees until you hear a click. The side that is open to the tubing will transmit sound.



Image: The fully assembled Omron Sprague Rappaport Stethoscope, ready for use.

OPERATING INSTRUCTIONS

Using your Omron Sprague Rappaport Stethoscope effectively requires proper technique:

1. **Position Eartips:** Insert the eartips into your ears, ensuring they point forward, aligning with your ear canals. This provides the best acoustic seal and comfort.
2. **Check for Sound:** Lightly tap the diaphragm or bell you intend to use. You should hear the tapping sound clearly. If not, rotate the chestpiece stem 180 degrees until the active side is engaged.
3. **Auscultation:**
 - **Diaphragm:** Place the diaphragm firmly against the patient's skin to listen to high-frequency sounds such as heart sounds (S1, S2), lung sounds, and bowel sounds.
 - **Bell:** Place the bell lightly against the patient's skin to listen to low-frequency sounds such as some heart murmurs (S3, S4) and bruits. Avoid pressing too hard, as this can stretch the skin and turn the bell into a diaphragm, filtering out low frequencies.
4. **Minimize External Noise:** Perform auscultation in a quiet environment to ensure accurate listening.

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Video: This video demonstrates the components of the Sprague Rappaport Stethoscope, including the three sets of bells, two sets of diaphragms, and two sets of eartips. It provides a visual overview of the accessories included with the stethoscope.

CARE AND MAINTENANCE

Proper care ensures the longevity and hygienic use of your stethoscope:

- **Cleaning:** After each use, wipe the diaphragm, bell, and eartips with an alcohol wipe (70% isopropyl alcohol) or a mild soap solution. Ensure all surfaces are dry before storage.
- **Tubing Care:** The latex-free tubing can be cleaned with alcohol wipes. Avoid immersing the tubing in liquid or using harsh chemicals, which can degrade the material.
- **Storage:** Store your stethoscope in a clean, dry place, away from extreme temperatures, direct sunlight, and solvents. Avoid coiling the tubing tightly, as this can cause kinks and reduce its lifespan.
- **Inspection:** Regularly inspect the eartips, diaphragms, and bells for cracks, tears, or wear. Replace any damaged components to maintain optimal acoustic performance.

TROUBLESHOOTING

If you experience issues with your stethoscope, consider the following common solutions:

- **Poor Sound Quality or No Sound:**
 - Ensure the chestpiece is rotated to activate the desired side (diaphragm or bell).
 - Check for blockages in the eartips or tubing. Remove and clean eartips if necessary.
 - Verify that the eartips are securely attached and form a tight seal in your ears.
 - Inspect the diaphragm or bell for cracks or loose connections. Replace if damaged.
- **Uncomfortable Eartips:**
 - Try the alternative pair of eartips provided to find a more comfortable fit.
 - Adjust the tension of the binaurals for a snug but not overly tight fit.
- **Tubing Kinks:**

Store the stethoscope loosely coiled to prevent permanent kinks in the tubing.

PRODUCT SPECIFICATIONS

Model Number	416-22-BLK
Brand	Omron
Color	Black
Material	Chrome plated chestpiece, PVC tubing, latex-free rubber eartips
Product Dimensions	9.5 x 4.75 x 1.75 inches
Item Weight	1.54 Pounds (0.7 Kilograms)
Tubing	Latex-free

Chestpiece Finish	Chrome
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WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or replacement parts, please refer to the official Omron website or contact Omron customer service directly. Keep your purchase receipt as proof of purchase.

Legal Disclaimer: For residents of NJ, VT, MA, and MI, purchasers must be at least 18 years of age or older to purchase this product.