

Kanto SUB6

Kanto SUB6 Sealed Powered Subwoofer User Manual

Model: SUB6

1. INTRODUCTION

Thank you for choosing the Kanto SUB6 Sealed Powered Subwoofer. This manual provides essential information for the proper setup, operation, and maintenance of your new audio device. The SUB6 is engineered to deliver precise and impactful low-frequency sound, enhancing your music, movies, and gaming experiences without occupying excessive space.

Key features of the Kanto SUB6 include:

- **Ultra-Compact Design:** Its small footprint allows for versatile placement, fitting comfortably in various environments.
- **Low-Frequency Precision:** A sealed enclosure design ensures accurate and distortion-free bass reproduction.
- **Room-Filling Power:** Equipped with a 100 W RMS (200 W Peak) Class-D amplifier and a 6-inch paper cone driver for dynamic bass.
- **Seamless Integration:** Features an adjustable crossover filter (40 Hz - 175 Hz) and a 0°/180° phase switch for optimal matching with your existing audio system.
- **Durable Construction:** Built with acoustic-grade MDF cabinets for long-lasting quality and aesthetic appeal.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read all instructions carefully before operating your SUB6 subwoofer. Retain this manual for future reference.

- **Power Source:** Connect the subwoofer only to an AC power source as indicated on the unit.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block any ventilation openings.
- **Water and Moisture:** Do not expose the unit to water, rain, or moisture. Do not place objects filled with liquids, such as vases, on the unit.
- **Heat:** Keep the unit away from heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- **Cleaning:** Clean only with a dry cloth. Unplug the unit from the wall outlet before cleaning.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Cables:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and

the point where they exit from the apparatus.

3. WHAT'S IN THE BOX

Verify that all components are present before proceeding with setup:

- Kanto SUB6 Powered Subwoofer
- Power Cord
- User Manual

4. SETUP

4.1 Placement

The compact design of the SUB6 allows for flexible placement. Consider the following guidelines:

- **Near Main Speakers:** Placing the subwoofer near your main speakers can help create a more cohesive soundstage.
- **Room Corners:** Corners often provide the most bass output, but can sometimes lead to boomy or uneven bass. Experiment with distance from the corner.
- **Listening Position:** The "subwoofer crawl" method can help find the best placement. Place the subwoofer at your primary listening position, then crawl around the room to find where the bass sounds best. Place the subwoofer in that spot.
- **Under Desks or Furniture:** Its small size makes it ideal for discreet placement in smaller rooms or under furniture.



Image: Kanto SUB6 subwoofer positioned in a living room, demonstrating its compact size and discreet placement capabilities.

4.2 Connections

The SUB6 connects to your audio system via RCA cables.

1. **Power Off:** Ensure your audio receiver/amplifier and the SUB6 are powered off before making any connections.
2. **RCA Input:** Connect an RCA cable from the "SUB OUT" or "LFE OUT" port on your receiver/amplifier to the "SUB IN" (L or R) port on the SUB6. If your receiver has a single LFE output, you can use either the L or R input on the SUB6. For stereo RCA outputs, connect both L and R inputs.
3. **Power Connection:** Connect the provided power cord to the AC input on the SUB6 and then to a wall outlet.



Image: Detailed view of the Kanto SUB6 rear panel, showing the RCA 'SUB IN' ports, 'LEVEL' knob, 'CROSSOVER FREQUENCY' knob, 'PHASE' switch, and 'AUTO-OFF' switch.

4.3 Initial Adjustments

After connecting, you will need to adjust the subwoofer's settings to blend it seamlessly with your main speakers.

- **Level (Volume):** Start with the 'LEVEL' knob set to its minimum position.
- **Crossover Frequency:** Set the 'CROSSOVER FREQUENCY' knob to match the low-frequency extension of your main speakers. A common starting point is 80 Hz. If your main speakers are small, you might set it higher (e.g., 100-120 Hz). If they are larger, you might set it lower (e.g., 60 Hz). If your receiver has an LFE output and manages the crossover, set the SUB6 crossover to its maximum (175 Hz).

- **Phase Switch:** Set the 'PHASE' switch to 0°. You may experiment with 180° later to see which setting provides more impactful and coherent bass at your listening position.
- **Auto-Off Switch:** Set the 'AUTO-OFF' switch to 'ON' for automatic power management, or 'OFF' for continuous power.

5. OPERATING YOUR SUB6 SUBWOOFER

5.1 Power On/Off

Once connected, power on your receiver/amplifier first, then the SUB6. If the 'AUTO-OFF' switch is set to 'ON', the subwoofer will automatically enter standby mode after approximately 15 minutes of no audio signal and will power on when a signal is detected. If set to 'OFF', the subwoofer will remain on continuously.

5.2 Fine-Tuning the Sound

Play some familiar music or movie scenes with strong bass content and adjust the following:

- **Level:** Slowly increase the 'LEVEL' knob until the subwoofer's bass output blends smoothly with your main speakers. The subwoofer should not overpower the main speakers but rather extend their low-frequency response.
- **Crossover Frequency:** Adjust the 'CROSSOVER FREQUENCY' knob up or down. The goal is to find a setting where the bass transitions seamlessly from your main speakers to the subwoofer, without any noticeable gaps or overlaps in frequency.
- **Phase Switch:** Toggle the 'PHASE' switch between 0° and 180°. Listen for the setting that provides the most impactful and coherent bass at your listening position. This adjustment helps ensure the subwoofer's sound waves are in sync with your main speakers.



Image: The Kanto SUB6 subwoofer shown alongside two Kanto satellite speakers, illustrating a typical audio setup.

6. MAINTENANCE

Proper care will ensure the longevity and optimal performance of your SUB6 subwoofer.

- **Cleaning:** Use a soft, dry cloth to clean the cabinet. Avoid using abrasive cleaners, waxes, or solvents as they may damage the finish.
- **Dust:** Regularly dust the unit to prevent accumulation, especially around the driver and rear panel.
- **Placement:** Avoid placing the subwoofer in direct sunlight or near sources of excessive heat or moisture.
- **Handling:** When moving the subwoofer, lift it carefully from the base. Avoid dropping or subjecting it to strong impacts.

7. TROUBLESHOOTING

If you encounter issues with your SUB6, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer	Power cord not connected Subwoofer not powered on RCA cable loose or disconnected Receiver/amplifier output not active Subwoofer level too low	Ensure power cord is securely plugged in. Check the power switch on the rear panel. Verify RCA cable connections at both the subwoofer and receiver. Check receiver settings for subwoofer output. Increase the 'LEVEL' knob on the subwoofer.
Distorted or boomy bass	Subwoofer level too high Incorrect crossover frequency Poor room acoustics/placement	Decrease the 'LEVEL' knob. Adjust the 'CROSSOVER FREQUENCY' knob. Experiment with subwoofer placement.
Weak or thin bass	Subwoofer level too low Incorrect crossover frequency Phase mismatch	Increase the 'LEVEL' knob. Adjust the 'CROSSOVER FREQUENCY' knob. Toggle the 'PHASE' switch between 0° and 180°.
Humming or buzzing sound	Ground loop issue Faulty RCA cable Interference from other electronics	Try plugging the subwoofer into a different electrical outlet. Replace the RCA cable. Move the subwoofer or other electronic devices further apart.

8. SPECIFICATIONS

Feature	Detail
Brand	Kanto
Model Number	SUB6VMB
Speaker Type	Subwoofer
Woofer Diameter	6 Inches
Speaker Maximum Output Power	200 Watts (Peak) / 100 Watts (RMS)
Frequency Response	40 Hz - 175 Hz
Connectivity Technology	RCA
Audio Output Mode	Stereo (with subwoofer)
Mounting Type	Floor Standing
Enclosure Material	Acoustic grade MDF cabinets, sealed construction
Additional Features	0° and 180° Phase Switch, Adjustable Crossover Filter, Class D Amplifier

Feature	Detail
Control Method	Knobs, Switches
Impedance	3 Ohms
Item Dimensions (D x W x H)	8.7"D x 8.7"W x 9.5"H
Item Weight	5 Kilograms
Power Source	AC

9. WARRANTY INFORMATION

Kanto Living Inc. (Kanto) warrants the equipment it manufactures to be free from defects in material and workmanship for a limited warranty period. The specific duration of the warranty may vary by region and product. Please refer to the official Kanto website or your purchase documentation for detailed warranty terms and conditions applicable to your SUB6 subwoofer.

This warranty covers parts and labor for repair or replacement of the product. It does not cover damages resulting from misuse, improper installation, accident, neglect, or unauthorized modification. Proof of original purchase is required for warranty service.

10. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to arrange for warranty service, please contact Kanto customer support:

- **Website:** Visit www.kantoaudio.com for FAQs, support articles, and contact information.
- **Email:** Refer to the support section of the Kanto website for the appropriate email address.
- **Phone:** Contact details for regional support lines can be found on the Kanto website.

Please have your product model (SUB6) and serial number ready when contacting support.