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Canton AS 225 SC

Canton AS 225 SC Active Down-Firing Subwoofer Instruction Manual

Model: AS 225 SC

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Canton AS 225 SC Active Down-Firing Subwoofer. Please read this manual thoroughly before using the product to ensure optimal performance and safety. Retain this manual for future reference.

2. SAFETY INSTRUCTIONS

- **Power Source:** Connect the subwoofer only to an AC power source as indicated on the unit. Ensure the voltage matches your local power supply.
- **Ventilation:** Do not block any ventilation openings. Allow adequate space around the unit for proper airflow to prevent overheating.
- **Water and Moisture:** Do not expose the subwoofer to rain, moisture, dripping, or splashing. Do not place objects filled with liquids, such as vases, on the unit.
- **Heat Sources:** Keep the subwoofer away from heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Unplug the unit from the wall outlet before cleaning. Use a dry cloth only.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- **Placement:** Place the subwoofer on a stable, level surface to prevent it from falling.

3. PACKAGE CONTENTS

Upon unpacking, please verify that the following items are included:

- Canton AS 225 SC Active Down-Firing Subwoofer Unit
- Power Cable
- Instruction Manual (this document)

If any items are missing or damaged, please contact your retailer immediately.

4. PRODUCT OVERVIEW

The Canton AS 225 SC is an active down-firing subwoofer designed to enhance the low-frequency performance of your audio system. It features a robust design and advanced technology for clear and powerful bass reproduction.

Key Features:

- Active subwoofer design for dedicated bass amplification.
- Discreet and modest cabinet design for seamless integration into various environments.
- Solid cabinet construction engineered to reduce unwanted resonance and improve sound clarity.
- Long-excursion woofer with wave technology for extended bass response.
- Down-firing design for efficient bass dispersion and an elegant appearance.
- Canton SC technology for extended transmission range and consistent sound.

Components:

The subwoofer unit consists of a sturdy enclosure housing a 10-inch aluminum wave surround woofer. The down-firing design means the woofer is positioned at the bottom of the cabinet, directing sound downwards. The rear panel typically includes power input, audio input connections, and control knobs for adjustments such as volume, crossover frequency, and phase.



Figure 1: Canton AS 225 SC Active Down-Firing Subwoofer. This image displays the subwoofer's silver finish and compact, cubic form factor, with the Canton logo visible on the lower front panel. The unit stands on four feet, indicating its down-firing design.

5. SETUP

5.1 Placement

The placement of your subwoofer significantly impacts its sound performance. Experiment with different locations to find the best balance of bass response in your listening area.

- **Corner Placement:** Placing the subwoofer in a corner often maximizes bass output due to room acoustics, but can sometimes lead to boomy or exaggerated bass.
- **Wall Placement:** Placing the subwoofer along a wall, but not in a corner, can provide a good balance

of output and accuracy.

- **Near Main Speakers:** Positioning the subwoofer near your main front speakers can improve the blend between the subwoofer and the main speakers.
- **Listening Position:** For optimal results, consider the "subwoofer crawl" method: place the subwoofer in your primary listening position, then crawl around the room to find where the bass sounds best. Place the subwoofer in that location.

Ensure the subwoofer is placed on a stable, level surface and that its feet are securely positioned to allow the down-firing woofer to operate without obstruction.

5.2 Connections

Before making any connections, ensure the subwoofer and all connected audio components are powered off and unplugged from the wall outlet.

1. **Power Connection:** Connect the provided power cable to the AC IN port on the subwoofer's rear panel, then plug the other end into a suitable wall outlet.
2. **Audio Input:**
 - **LFE (Low-Frequency Effects) Input:** If your AV receiver or processor has a dedicated LFE or Subwoofer Pre-Out, connect a single RCA cable from this output to the LFE input on the subwoofer. This is the most common and recommended connection for home theater systems.
 - **Stereo RCA Inputs:** If your receiver does not have an LFE output, connect stereo RCA cables from your receiver's pre-out (e.g., "Front Pre-Out" or "Subwoofer Out" if it's a stereo pre-out) to the left and right RCA inputs on the subwoofer.

5.3 Initial Configuration

After connecting, power on your audio system and the subwoofer. Adjust the following settings on the subwoofer's rear panel:

- **Volume/Gain:** Start with the volume control at its lowest setting. Gradually increase it until the subwoofer's output blends seamlessly with your main speakers. The subwoofer should not overpower the other speakers.
- **Crossover Frequency:** This control determines the highest frequency the subwoofer will reproduce. Set it based on the low-frequency capabilities 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 your receiver has a built-in crossover, it is often best to set the subwoofer's crossover to its maximum setting or bypass it if possible, and let the receiver manage the crossover.
- **Phase Control:** This control (usually 0° or 180°) helps ensure the subwoofer's sound waves are in sync with your main speakers. Listen to music with strong bass and switch between 0° and 180°. Choose the setting that produces the most impactful and coherent bass.

Refer to your AV receiver's manual for specific setup instructions, especially regarding speaker calibration and bass management settings.

6. OPERATING

Once properly set up, the Canton AS 225 SC subwoofer operates automatically when your audio system is turned on. Most subwoofers feature an auto-on/standby function that detects an audio signal and powers on the unit, entering standby mode when no signal is present for a period.

- **Power On/Off:** The subwoofer typically has a main power switch. For daily use, you can leave this switch in the "On" position, allowing the auto-on feature to manage power. For extended periods of

non-use, it is recommended to turn off the main power switch and unplug the unit.

- **Adjustments:** Fine-tune the volume, crossover, and phase controls as needed to suit different audio content or personal preferences. Small adjustments can significantly impact the overall sound.

7. MAINTENANCE

Proper care ensures the longevity and performance of your subwoofer.

- **Cleaning:** Dust the cabinet regularly with a soft, dry cloth. For stubborn marks, lightly dampen the cloth with water, then wipe dry immediately. Avoid using abrasive cleaners, solvents, or chemical sprays, as these can damage the finish.
- **Ventilation:** Ensure that the ventilation openings are clear of dust and debris.
- **Environment:** Avoid placing the subwoofer in direct sunlight, near heat sources, or in areas with high humidity.
- **Handling:** When moving the subwoofer, lift it carefully from the base. Avoid dropping or subjecting it to strong impacts.

8. TROUBLESHOOTING

If you encounter issues with your Canton AS 225 SC subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer	Subwoofer not powered on. Loose or incorrect audio cable connection. Volume/gain set too low. Receiver settings incorrect (e.g., subwoofer output disabled).	Ensure the main power switch is ON and the unit is plugged in. Check all audio cable connections. Increase the subwoofer's volume/gain control. Verify subwoofer settings in your AV receiver's menu.
Distorted or boomy bass	Volume/gain set too high. Incorrect crossover frequency. Poor room acoustics or subwoofer placement.	Decrease the subwoofer's volume/gain. Adjust the crossover frequency. Experiment with different subwoofer placements.
Weak or thin bass	Volume/gain set too low. Incorrect phase setting. Crossover frequency set too low.	Increase the subwoofer's volume/gain. Toggle the phase control (0°/180°) to find the optimal setting. Increase the crossover frequency.
Humming or buzzing noise	Ground loop issue. Faulty cable.	Try plugging the subwoofer and connected components into the same power strip. Test with a different audio cable.

If the problem persists after trying these solutions, please contact qualified service personnel.

9. SPECIFICATIONS

The following specifications apply to the Canton AS 225 SC Active Down-Firing Subwoofer:

Model Number	AS 225 SC
Brand	Canton
Speaker Type	Active Down-Firing Subwoofer
Woofer Diameter	10 Inches (Aluminum Wave Surround)
Speaker Maximum Output Power	200 Watts
Audio Output Mode	Surround
Power Source	AC
Product Dimensions (L x W x H)	19.5 x 11.6 x 17.1 inches
Item Weight	38 pounds
Control Method	Touch (referring to physical knobs/buttons)
Recommended Uses	For Surround Sound Systems, Home Entertainment Systems, Televisions
Compatible Devices	Gaming Console, Home Theater, Karaoke Machine, Projector, Television

10. WARRANTY AND SUPPORT

The Canton AS 225 SC Subwoofer comes with a limited warranty. Please refer to the warranty card included with your product or contact Canton customer support for detailed information regarding warranty terms and conditions.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Canton customer support through their official website or the contact information provided with your purchase documentation.