AMC SUB 2

AMC SUB 2 Active Subwoofer Instruction Manual

Model: SUB 2

Brand: AMC

Introduction

The AMC SUB 2 is an active subwoofer designed for very low-frequency sound reproduction. It features a 200W amplifier and a high-quality aramid glass composite woofer mounted at the front. It delivers strong bass output with a sensitivity of 90 dB. Its compact size and powerful bass make it suitable for any audio setup requiring deep low frequencies. This manual provides essential information for the safe and efficient use of your AMC SUB 2 subwoofer.

Safety Information

Please read and understand all safety instructions before operating this device. Retain this manual for future reference.

- **Electrical Shock Hazard:** Do not open the subwoofer enclosure. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- **Power Source:** Connect the unit only to an AC power outlet that matches the voltage and frequency specified on the rear panel (230V, 50Hz/60Hz).
- **Moisture and Heat:** Do not expose this appliance to rain, moisture, dripping, or splashing. Do not place objects filled with liquids, such as vases, on the apparatus. Avoid placing the unit near heat sources or in direct sunlight.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block any ventilation openings.
- **Cleaning:** Disconnect the power cord before cleaning. Use a dry cloth only.
- **Placement:** Place the subwoofer on a stable, level surface to prevent it from falling.

Image 1: Rear panel of the AMC SUB 2 Active Subwoofer. This view displays all input/output connections, control knobs for Volume, Low Pass, and Phase, the Ground Lift switch, and the power input with the main power switch.

Controls and Connections

The rear panel of the AMC SUB 2 provides all necessary controls and connection points for integration into your audio system. Refer to Image 1 for visual reference.

- **VOLUME:** This knob adjusts the overall output level of the subwoofer. Range from -30dB to +6dB.

- **LOW PASS:** This knob sets the upper frequency limit for the subwoofer, allowing you to blend it seamlessly with your main speakers. Adjustable from 50Hz to 130Hz.
- **PHASE:** This switch (0°/180°) allows you to adjust the phase of the subwoofer's output relative to your main speakers. This helps to optimize bass response and avoid cancellation.
- **LINE IN (RCA):** Stereo RCA inputs (Right/Left) for connecting to the line-level output of your audio source (e.g., receiver, pre-amplifier).
- **LINE OUT (RCA):** Stereo RCA outputs (Right/Left) for passing the audio signal to other components.
- **IN (XLR/TRS):** Balanced XLR and 6.3mm TRS (Tip-Ring-Sleeve) inputs for professional audio connections. Available for both Left and Right channels.
- **OUT (XLR/TRS):** Balanced XLR and 6.3mm TRS outputs for passing the audio signal to other professional audio equipment. Available for both Left and Right channels.
- **GROUND LIFT:** This switch helps to eliminate hum or buzz caused by ground loops in your audio system.
- **POWER Switch:** Toggles the subwoofer's power ON or OFF.
- **AC IN:** Connector for the detachable power cord. Ensure the correct voltage (230V) is supplied.

Setup

1. **Placement:** Position the subwoofer in your listening area. Experiment with different locations to find the best bass response. Corner placement often enhances bass, but can also lead to boominess.
2. **Power Connection:** Ensure the POWER switch is in the OFF position. Connect the supplied power cord to the AC IN socket on the subwoofer's rear panel and then to a suitable wall outlet.
3. **Audio Connection:**
    - **RCA Connection:** Connect RCA cables from the LFE (Low-Frequency Effects) or Subwoofer output of your receiver/pre-amplifier to the LINE IN (Left or Right, or both for stereo) on the SUB 2. If your source has stereo line outputs, connect both Left and Right to the corresponding LINE IN on the SUB 2.
    - **XLR/TRS Connection:** For professional setups, connect balanced XLR or 6.3mm TRS cables from your audio mixer or processor's outputs to the IN (Left/Right) on the SUB 2.
4. **Initial Settings:**
    - Set the VOLUME knob to its minimum position (-30dB).
    - Set the LOW PASS knob to a starting point, typically around 80Hz.
    - Set the PHASE switch to 0°.

Operating

1. **Power On:** Turn on your main audio system components first, then switch the POWER button on the SUB 2 to the ON position.
2. **Volume Adjustment:** Play some audio with significant bass content. Slowly increase the VOLUME knob on the SUB 2 until the bass output blends well with your main speakers. Avoid setting the volume too high, which can lead to distortion.
3. **Low Pass Filter Adjustment:** Adjust the LOW PASS knob to fine-tune the crossover frequency. The goal is to have a smooth transition between the subwoofer and your main speakers. If your main speakers are small, a higher crossover frequency (e.g., 100-120Hz) might be appropriate. For larger speakers, a lower frequency (e.g., 60-80Hz) may be better.
4. **Phase Adjustment:** Experiment with the PHASE switch (0° or 180°). Listen for the setting that provides the

most impactful and coherent bass response at your listening position. This often involves trying both settings and choosing the one that sounds louder or more defined.

5. **Ground Lift:** If you experience a persistent hum or buzz, try flipping the GROUND LIFT switch. This can help break ground loops that cause unwanted noise.
6. **Power Off:** When finished, switch the POWER button on the SUB 2 to the OFF position, then turn off your main audio system components.

Maintenance

- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth to wipe the exterior surfaces of the subwoofer. Do not use liquid cleaners, aerosols, or abrasive materials, as these can damage the finish.
- **Ventilation:** Periodically check that the ventilation openings are clear of dust and debris to ensure proper airflow and prevent overheating.
- **Storage:** If storing the subwoofer for an extended period, ensure it is in a dry, cool environment, away from direct sunlight and extreme temperatures.

Troubleshooting

If you encounter issues with your AMC SUB 2, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer	◦ Power cord not connected or power switch off. ◦ Audio cables not connected correctly. ◦ Source device not sending signal. ◦ Subwoofer volume too low.	◦ Check power cord and ensure power switch is ON. ◦ Verify all audio cable connections. ◦ Ensure your receiver/pre-amplifier is configured to send a signal to the subwoofer. ◦ Increase the VOLUME knob on the subwoofer.
Distorted or unclear bass	◦ Volume set too high. ◦ Incorrect phase setting. ◦ Subwoofer placement issues.	◦ Reduce the VOLUME knob. ◦ Toggle the PHASE switch (0°/180°) to find the optimal setting. ◦ Experiment with different subwoofer placements.
Humming or buzzing noise	◦ Ground loop issue. ◦ Faulty audio cable.	◦ Engage the GROUND LIFT switch. ◦ Try replacing audio cables. ◦ Ensure all components are plugged into the same electrical circuit if possible.

Specifications

Model Number	SUB 2
Speaker Size	10 inches (254 mm)
Maximum Speaker Output Power	200 Watts
Frequency Response	20 Hz - 130 kHz
Low-Pass Filter	50 Hz - 130 Hz
Inputs	Stereo RCA, Stereo Balanced 6.3mm TRS Jack, Stereo Balanced XLR
Power Source	Wired Electric (AC 230V, 50Hz/60Hz)
Material	Painted MDF
Product Dimensions (L x W x H)	37 x 38 x 35.5 cm
Item Weight	11 Kilograms
Color	Black RAL9017

Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your authorized AMC dealer or distributor. Keep your proof of purchase for any warranty claims.