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> Alpine SWE-355 Active Bass Reflex Subwoofer User Manual

Alpine SWD-355

Alpine SWE-355 Active Bass Reflex Subwoofer User Manual

Model: SWD-355 | Brand: Alpine

1. INTRODUCTION

The Alpine SWE-355 is a high-performance 30 cm (12-inch) active bass reflex subwoofer system designed to deliver powerful and reliable bass for your car audio setup. This manual provides essential information for the proper installation, operation, and maintenance of your SWE-355 subwoofer.

2. PRODUCT FEATURES

- **Integrated V-POWER Digital Amplifier:** Features a built-in MRV-M250 mono amplifier (Class-D) for efficient power delivery.
- **High Power Output:** Delivers 650 W peak power and 150 W RMS at 4 ohms (14.4V).
- **Optimized Bass Reflex Enclosure:** A premium bass reflex box designed for excellent bass response and high load capacity.
- **Adjustable Low-Pass Filter:** Customizable filter from 50-400 Hz at 24 dB/octave.
- **Variable Bass Equalizer:** Adjustable bass boost (0 to +12 dB) at 50 Hz.
- **Remote Bass Level Control:** Includes a remote control for convenient bass level adjustment (12 dB linear adjustment range).
- **Switchable Bass Reflex Port:** Lockable opening allows for both sealed and vented operation.
- **Illuminated Alpine Logo:** White illuminated logo on the front panel.
- **Plug & Play Connections:** All connections are pluggable and detachable without tools for easy installation.

3. PACKAGE CONTENTS

Please check the package contents carefully upon unpacking:

- Alpine SWE-1244E 30 cm (12") Subwoofer
- MRV-M250 V-POWER Digital Mono Amplifier (integrated)
- Premium Bass Reflex Enclosure
- Remote Bass Level Control with 5m connection cable

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended to have this unit installed by a qualified professional.



Figure 1: Alpine SWE-355 Active Bass Reflex Subwoofer. This image shows the compact design of the subwoofer enclosure with the Alpine logo and the V-POWER branding visible on the top and side panels, respectively. The 12-inch subwoofer cone is clearly visible through the front opening.

4.1. Placement

Choose a secure and stable location in your vehicle, typically in the trunk or cargo area. Ensure adequate ventilation around the unit.

4.2. Wiring Connections

The SWE-355 features pluggable connections for ease of installation. Ensure all connections are secure to prevent signal loss or short circuits.

- **Power Connection:** Connect the main power cable to the vehicle's battery, ensuring an inline fuse is installed close to the battery.

- **Ground Connection:** Connect the ground cable to a clean, unpainted metal surface of the vehicle chassis.
- **Remote Turn-On:** Connect the remote turn-on wire to your head unit's remote output.
- **Audio Input (RCA):** Connect the RCA cables from your head unit's subwoofer output or pre-amp output to the RCA input terminals on the SWE-355.
- **Remote Bass Level Control:** Connect the provided 5m cable from the remote control to the designated port on the subwoofer unit.

Refer to your vehicle's wiring diagram and the SWE-355's connection panel for specific terminal locations.

5. OPERATING INSTRUCTIONS

5.1. Initial Power On

Once all connections are made, turn on your vehicle's ignition and head unit. The Alpine logo on the subwoofer should illuminate, indicating power.

5.2. Adjusting Bass Level

Use the remote bass level control to adjust the subwoofer's output volume. This allows for convenient real-time adjustments from the driver's seat.

5.3. Low-Pass Filter and Bass EQ

The integrated amplifier features adjustable settings:

- **Low-Pass Filter (LPF):** Adjust the LPF to blend the subwoofer's output seamlessly with your main speakers. A common starting point is 80-100 Hz.
- **Bass Equalizer:** Use the bass equalizer to boost specific bass frequencies if desired. Start with minimal boost and adjust to your preference.

5.4. Bass Reflex Port Adjustment

The bass reflex port has a lockable opening. You can choose to operate the subwoofer in a sealed configuration (port closed) for tighter, more controlled bass, or in a vented configuration (port open) for louder, more extended bass. Experiment with both settings to find your preferred sound.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Alpine SWE-355, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the enclosure. Avoid abrasive cleaners or solvents.
- **Ventilation:** Ensure the amplifier's heat sinks are not obstructed to prevent overheating.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Environment:** Protect the unit from extreme temperatures, moisture, and direct sunlight.

7. TROUBLESHOOTING

If you experience issues with your SWE-355, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Sound from Subwoofer	No power; loose connections; head unit settings; amplifier protection mode.	Check power, ground, and remote wires. Ensure RCA cables are connected. Verify head unit's subwoofer output is enabled. Check amplifier's status indicator.
Distorted Sound	Gain set too high; improper LPF setting; damaged speaker wire; faulty source.	Reduce gain. Adjust LPF. Inspect speaker wires. Test with a different audio source.
Subwoofer Overheating	Insufficient ventilation; prolonged high volume use; impedance mismatch.	Ensure proper airflow around the amplifier. Reduce volume. Verify correct impedance.

If the problem persists after attempting these solutions, please contact Alpine customer support or a qualified car audio technician.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	SWD-355
Subwoofer Diameter	30 cm (12 inches)
Peak Power Output	650 W
RMS Power Output	150 W (at 4 ohms @ 14.4V)
Frequency Response	30 Hz - 200 Hz
Impedance	4 ohms
Low-Pass Filter	Adjustable: 50-400 Hz @ 24 dB/oct.
Bass Equalizer	Variable (fc = 50 Hz), 0 to +12 dB
Connections	RCA Input, Power, Ground, Remote Turn-On, Remote Bass Control
Dimensions (W x H x D)	450 mm x 392 mm x 315 mm / 422 mm
Item Weight	5 kg

9. WARRANTY AND SUPPORT

Alpine products are manufactured to the highest quality standards. For information regarding the warranty period and terms, please refer to the warranty card included with your product or visit the official Alpine website. For technical support, service, or replacement parts, please contact Alpine customer service directly.

Note: Unauthorized modifications or repairs may void your warranty.

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