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Hifonics SM653, SM693

Hifonics Autotek Street Machine 6.5 Inch and 6x9 Inch 3-Way Car Audio Coaxial Speakers User Manual

Model: SM653 (6.5 Inch), SM693 (6x9 Inch)

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Hifonics Autotek Street Machine 6.5 Inch (SM653) and 6x9 Inch (SM693) 3-Way Car Audio Universal Coaxial Speakers. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your speakers.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage and interference.
- Do not install speakers in locations that obstruct vehicle operation or safety features.
- Wear appropriate safety gear, including eye protection, during installation.
- If you are unsure about any part of the installation process, consult a professional car audio installer.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Hifonics Autotek Street Machine 6.5 Inch 3-Way Coaxial Speakers (2 units)
- Hifonics Autotek Street Machine 6x9 Inch 3-Way Coaxial Speakers (2 units)
- Mounting Hardware (screws, clips)
- Cut-Out Template for Easy Installation
- Speaker Grilles (if included with specific models)

SETUP AND INSTALLATION

Proper installation is crucial for optimal sound performance and speaker longevity. Follow these steps carefully.

1. Pre-Installation Checks

- **Vehicle Compatibility:** Ensure the speaker sizes (6.5 inch and 6x9 inch) are compatible with your vehicle's speaker openings.
- **Power Requirements:** Confirm your car audio system (head unit and amplifier, if any) can provide adequate power without exceeding the speakers' RMS power handling.
- **Tools Required:** Gather necessary tools such as screwdrivers, wire strippers, crimping tool, drill, and safety glasses.

2. Mounting the Speakers

Use the provided cut-out template to mark and cut the speaker openings if new holes are required. Ensure sufficient depth clearance for the speaker magnet.



Figure 1: Back view of the 6.5-inch speaker (SM653) showing the magnet and wiring terminals. Note the model number printed on the magnet cover.

SM693 Car Audio Speakers

AUTOTEK

9.25" Length x
6.5" Width x
3.59" Height



Neo Mylar Soft
Dome Tweeters

Alpha-Cellulose
Poly Cones

Speaker
Peak Power
Handling

**400
watts**

Speaker
RMS Power
Handling

**200
watts**

Speaker Crossover
Slope

**1kHz +
3kHz 12dB**

Weight

5.4 lbs

Figure 2: Diagram illustrating the dimensions (9.25" L x 6.5" W x 3.59" H) and key components (Neo Mylar Soft Dome Tweeters, Alpha-Cellulose Poly Cones) of the 6x9-inch speaker (SM693).

- Position the speaker in the opening and align the mounting holes.
- Secure the speaker using the provided screws. Do not overtighten, as this can damage the speaker frame.
- Ensure the anti-resonant stamped steel basket and textured ABS gasket provide a tight, secure fit to minimize distortion.

3. Wiring the Speakers

Connect the speaker wires from your car audio system to the speaker terminals. Observe correct polarity (positive to positive, negative to negative) to ensure proper phase and sound quality.

- The speakers feature braided tinsel leads for high conductivity.
- Use appropriate gauge speaker wire for your installation.
- Secure all connections to prevent accidental disconnection or short circuits.

OPERATING INSTRUCTIONS

Once installed, your Autotek Street Machine speakers are ready for use. These speakers are designed to deliver balanced, full-range audio.

- **Initial Playback:** Start with a low volume and gradually increase it to ensure all connections are secure and the speakers are functioning correctly.
- **Sound Adjustment:** Utilize your car audio system's equalizer and balance controls to fine-tune the sound to your preference. The Neo Mylar Soft Dome Tweeters provide crisp highs, while the Alpha-Cellulose Poly Cones produce rich midrange and deep bass.
- **Crossover System:** The built-in 6dB Butterworth crossover ensures smooth frequency transitions between the speaker components, minimizing distortion.



Figure 3: Front view of the 6.5-inch speaker (SM653) showing the coaxial design with tweeter and cone.

MAINTENANCE

Your Autotek Street Machine speakers are built for durability and require minimal maintenance.

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Environmental Protection:** The UV-resistant rubber surround provides protection against environmental elements. The high-temperature adhesive system and epoxy-infused natural fiber spider maintain integrity in various conditions.
- **Heat Management:** The pure copper voice coil with Kapton former and over-coil cooling system are designed for efficient heat dissipation, ensuring stable performance during extended use.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound from Speaker	<ul style="list-style-type: none">◦ Loose or incorrect wiring connection.◦ Speaker wire shorted.◦ Head unit or amplifier issue.	<ul style="list-style-type: none">◦ Check all wiring connections for proper polarity and secure fit.◦ Inspect speaker wires for damage or shorts.◦ Test with another known-good speaker or audio source.
Distorted or Unclear Sound	<ul style="list-style-type: none">◦ Volume too high, causing clipping.◦ Incorrect equalizer settings.◦ Loose mounting.◦ Damaged speaker.	<ul style="list-style-type: none">◦ Reduce volume to a comfortable level.◦ Adjust equalizer settings on your head unit.◦ Ensure speakers are securely mounted.◦ Inspect speaker cone and surround for physical damage.
Intermittent Sound	<ul style="list-style-type: none">◦ Loose wiring connection.◦ Vibration causing connection issues.	<ul style="list-style-type: none">◦ Re-check and secure all wiring connections.◦ Ensure speaker wires are not pinched or rubbing against vehicle components.

If problems persist after attempting these solutions, contact customer support or a qualified technician.

SPECIFICATIONS

Feature	Description
Model Name	SM653 (6.5 Inch), SM693 (6x9 Inch)
Speaker Type	3-Way Coaxial
Speaker Size	6.5 Inches and 6x9 Inches
Speaker Maximum Output Power	600 Watts (Peak)
Speaker RMS Power Handling (SM693)	200 Watts
Connectivity Technology	Wired
Mounting Type	Door Mount
Product Dimensions (6.5 Inch)	6.58"D x 6.58"W x 2.54"H

Feature	Description
Product Dimensions (6x9 Inch)	9.25"L x 6.5"W x 3.59"H
Material	Steel, ABS Plastic, Mylar, Paper
Included Components	Cut-Out Template for Easy Installation
Crossover	Passive Butterworth crossover, 6dB internal crossover
Tweeter	Neo Mylar Soft Dome Tweeters
Cone Material	Alpha-Cellulose Poly Cones
Voice Coil	Pure copper voice coil with Kapton former
Surround	UV-resistant rubber surround
Spider	Epoxy-infused natural fiber spider
Basket	Anti-resonant stamped steel basket
Gasket	Textured ABS gasket
Manufacturer	Maxxsonics
UPC	193802400922

WARRANTY AND SUPPORT

Hifonics products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your purchase or visit the official Hifonics website.

For technical support or service inquiries, please contact Hifonics customer service through their official channels. Keep your purchase receipt as proof of purchase for any warranty claims.

