

Audiobank AB-790

Audiobank AB790 6x9 4-Way Car Audio Coaxial Speakers and Angled Speaker Boxes User Manual

Model: AB-790

1. INTRODUCTION

Thank you for choosing the Audiobank AB790 6x9 inch 4-Way Car Audio Coaxial Speakers and Angled Speaker Boxes. This manual provides essential information for the proper installation, operation, and maintenance of your new car audio system components. Please read this manual thoroughly before installation and retain it for future reference.

These speakers are designed to deliver clear and powerful audio performance in a vehicle environment. The included angled speaker boxes provide a convenient and optimized enclosure for the speakers.



Image 1.1: Audiobank AB790 6x9 inch 4-Way Car Audio Coaxial Speakers and Angled Speaker Boxes. This image displays two 6x9 inch coaxial speakers alongside two angled speaker boxes, showcasing the complete product package.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- **Professional Installation Recommended:** If you are unsure about any aspect of the installation, consult a qualified car audio technician.
- **Disconnect Power:** Before beginning any electrical work, disconnect the vehicle's battery to prevent electrical shorts and damage.
- **Wiring:** Ensure all wiring connections are secure and properly insulated to prevent short circuits. Use appropriate gauge wiring for speaker connections.
- **Mounting:** Securely mount speakers and boxes to prevent them from becoming projectiles during sudden stops or accidents.
- **Ventilation:** Ensure adequate ventilation around the speaker boxes to prevent overheating, although passive speakers typically do not generate significant heat.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 2x Audiobank AB790 6x9 inch 4-Way Coaxial Speakers
- 2x Angled 6x9 inch Speaker Boxes (MDF construction)
- Speaker Grills (pre-installed or included separately)
- Mounting hardware (screws, clips - may vary)

4. PRODUCT FEATURES

- **Speaker Type:** 6x9 inch 4-Way Coaxial Speaker Set
- **Power Handling:** 300 Watts RMS (per pair), 1000 Watts Peak Power (per pair)
- **Speaker Box Construction:** 5/8-inch MDF (Medium-Density Fiberboard) for durability and acoustic performance.
- **Design:** Angled style speaker boxes for versatile placement.
- **Compatibility:** Designed for car stereo systems, compatible with MP3 players and smartphones via car stereo input.



Image 4.1: Close-up view of the Audiobank AB790 6x9 inch speaker cone. This image highlights the speaker's central tweeter and mid-range components, showing the design without the protective grill.



Image 4.2: Audiobank AB790 6x9 inch speaker with its protective grill. This view shows the speaker with the grill installed, featuring the Audiobank logo.

5. SPECIFICATIONS

Feature	Specification
Model Number	AB-790
Speaker Type	6x9 inch 4-Way Coaxial
Peak Power Handling	1000 Watts (per pair)
RMS Power Handling	300 Watts (per pair)
Speaker Box Material	5/8-inch MDF
Speaker Box Dimensions (approx.)	15"W x 10"H x 5"D (38.1cm W x 25.4cm H x 12.7cm D)
Woofer Diameter	6 inches (nominal)
Connectivity Technology	Wired (Coaxial)
Audio Output Mode	Stereo
Mounting Type	Car Mount, Coaxial (within boxes)



Image 5.1: Angled 6x9 inch speaker box with approximate dimensions indicated. This image provides a visual reference for the physical size of the speaker enclosure.

6. SETUP AND INSTALLATION

This section outlines the general steps for installing your Audiobank AB790 speakers and boxes. Specific vehicle requirements may vary.

6.1. Preparation

1. **Gather Tools:** You will need basic hand tools such as screwdrivers, wire strippers, crimpers, and potentially a drill.
2. **Disconnect Battery:** Always disconnect the negative terminal of your vehicle's battery before starting any electrical work.
3. **Plan Placement:** Determine the optimal location for the speaker boxes in your vehicle. Consider sound dispersion and secure mounting.

6.2. Speaker Installation into Boxes (if not pre-installed)

The AB790 speakers are designed to fit into the provided 6x9 inch angled boxes.

1. **Position Speaker:** Carefully place each 6x9 inch speaker into the opening of its respective speaker

box. Ensure the mounting holes align.

2. **Secure Speaker:** Use the provided screws to secure the speaker to the box. Tighten screws evenly to prevent warping.
3. **Connect Internal Wiring:** The speaker boxes typically have pre-wired terminals. Connect the speaker's positive (+) terminal to the red terminal on the box and the negative (-) terminal to the black terminal on the box. Ensure a secure connection.



Image 6.1: Rear view of the Audiobank AB790 speaker, showing the positive and negative terminals for wiring connections.

6.3. Connecting to Vehicle Audio System

1. **Run Speaker Wire:** Route appropriate gauge speaker wire from your car stereo's amplifier or head unit to the location of the speaker boxes. Ensure wires are not pinched or exposed to sharp edges.
2. **Connect to Boxes:** Connect the speaker wires from your car audio system to the terminals on the back of the speaker boxes. Match positive (+) to positive (red) and negative (-) to negative (black).
3. **Secure Boxes:** Once wired, securely mount the speaker boxes in their desired location using appropriate fasteners. This prevents movement and potential damage.

6.4. Final Steps

1. **Reconnect Battery:** Reconnect the negative terminal of your vehicle's battery.
2. **Test System:** Turn on your car audio system and test the speakers at a low volume. Gradually increase the volume to ensure proper operation and sound quality.

7. OPERATING INSTRUCTIONS

The Audiobank AB790 speakers are passive components and operate in conjunction with your vehicle's car stereo or amplifier. There are no direct controls on the speakers themselves.

- **Volume Control:** Adjust the volume using your car stereo's controls.
- **Audio Settings:** Utilize your car stereo's equalizer, balance, and fader controls to optimize sound output to your preference.
- **Break-in Period:** Allow a short break-in period (typically 10-20 hours of normal listening) for the speaker components to loosen up and achieve optimal performance. Avoid excessively high volumes during this period.

8. MAINTENANCE

Proper maintenance ensures the longevity and performance of your speakers:

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker boxes and grills. Avoid abrasive cleaners or solvents.
- **Environmental Protection:** While the speaker boxes are constructed from MDF, they are not waterproof. Avoid exposing them to excessive moisture or direct sunlight for prolonged periods.
- **Connection Checks:** Periodically check all wiring connections to ensure they remain secure and free from corrosion.
- **Grill Care:** The speaker grills protect the cones. Handle them carefully. If they become loose, re-secure them gently.

9. TROUBLESHOOTING

If you encounter issues with your Audiobank AB790 speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound from Speakers	<ul style="list-style-type: none">◦ Loose or incorrect wiring connections.◦ Car stereo/amplifier not powered on or faulty.◦ Fader/balance settings incorrect.	<ul style="list-style-type: none">◦ Check all speaker wire connections at the stereo/amplifier and speaker boxes. Ensure correct polarity (+/-).◦ Verify car stereo/amplifier power and functionality.◦ Adjust fader/balance settings on your car stereo.

Distorted Sound	<ul style="list-style-type: none"> ◦ Volume too high, causing clipping. ◦ Loose speaker cone or damaged component. ◦ Incorrect amplifier gain settings. 	<ul style="list-style-type: none"> ◦ Reduce volume. ◦ Inspect speaker cones for physical damage. ◦ Adjust amplifier gain settings according to amplifier manual.
One Speaker Not Working	<ul style="list-style-type: none"> ◦ Loose connection to that specific speaker. ◦ Faulty speaker wire. ◦ Speaker damage. 	<ul style="list-style-type: none"> ◦ Check wiring for the non-working speaker. ◦ Test speaker wire continuity. ◦ If connections are good, the speaker may be damaged and require replacement.

If troubleshooting steps do not resolve the issue, contact Audiobank customer support or a qualified car audio technician.

10. WARRANTY AND SUPPORT

Warranty Type: Full Warranty

For specific warranty details, including duration and coverage, please refer to the warranty card included with your product or contact Audiobank customer support directly. Keep your proof of purchase for warranty claims.

Customer Support: For technical assistance, parts, or service inquiries, please visit the official Audiobank website or contact their customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.

Note: This product is from a small business brand. Support small businesses.