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## Cadence Q693

# Cadence Acoustic S Q693 300W 6-Inch X 9-Inch 3-Way Q Series Coaxial Car Speakers

Model: Q693

## INTRODUCTION

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Thank you for choosing Cadence Acoustic S Q693 3-Way Coaxial Car Speakers. These speakers are designed to deliver high-quality audio performance in your vehicle. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your speakers.

## SAFETY INFORMATION

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Please read all safety instructions carefully before installing and operating the speakers. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- Always disconnect the vehicle's battery negative terminal before beginning any electrical work.
- Ensure proper wiring polarity to prevent damage to the speakers and amplifier.
- Do not install speakers in locations that obstruct vehicle operation or safety features.
- Avoid exposing speakers to excessive moisture or extreme temperatures.
- Consult a professional installer if you are unsure about any part of the installation process.
- Operate audio systems at safe volume levels to prevent hearing damage.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

- 2 x Cadence Acoustic S Q693 6x9-Inch 3-Way Coaxial Car Speakers
- 2 x Speaker Grilles (if included)
- Mounting Hardware (screws, clips)
- Speaker Wire (if included)
- User Manual (this document)

## SETUP AND INSTALLATION

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Proper installation is crucial for optimal sound quality and speaker longevity. If you are not experienced with car audio installation, it is recommended to seek professional assistance.

## 1. Pre-Installation Checks

- Confirm the speakers fit the intended mounting location (e.g., door panels, rear deck). The top-mount depth is 3.25 inches.
- Ensure your vehicle's audio system (head unit, amplifier) is compatible with 4 ohms impedance speakers.
- Gather necessary tools: screwdrivers, wire strippers, crimpers, drill (if needed), electrical tape, multimeter.

## 2. Mounting the Speakers

1. Carefully remove the existing speakers or trim panels from the desired mounting location.
2. Position the new Cadence Q693 speaker in the opening. Mark the screw holes if new holes are required.
3. Drill pilot holes if necessary, ensuring not to damage any vehicle wiring or components behind the mounting surface.
4. Secure the speaker using the provided mounting screws. Do not overtighten.

## 3. Wiring Connections

Connect the speaker wires to your vehicle's audio system. Pay close attention to polarity.

- Identify the positive (+) and negative (-) terminals on the speaker and the corresponding wires from your amplifier or head unit.
- Connect the positive speaker terminal to the positive output wire from your audio source.
- Connect the negative speaker terminal to the negative output wire from your audio source.
- Ensure all connections are secure and insulated to prevent short circuits.



**Figure 1:** Cadence Acoustic S Q693 6x9-inch 3-Way Q Series Coaxial Car Speaker. This image displays the speaker's front view, highlighting its orange polypropylene cone, black rubber surround, and the central assembly which integrates the midrange and tweeter, protected by an orange-accented grille.

## OPERATING INSTRUCTIONS

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Once installed, your Cadence Q693 speakers are ready for use. Follow these general guidelines for optimal audio experience.

- **Initial Power-Up:** After installation, reconnect the vehicle's battery. Turn on your head unit at a low volume.
- **Volume Control:** Gradually increase the volume to a comfortable listening level. Avoid pushing the speakers to distortion, as this can cause damage.
- **Audio Settings:** Adjust bass, treble, and balance settings on your head unit or amplifier to suit your personal preference. These speakers are designed for a balanced sound profile.
- **Break-in Period:** New speakers may require a short break-in period (typically 10-20 hours of normal use) to achieve their full sound potential. During this time, avoid playing them at extremely high volumes.

## MAINTENANCE

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Regular care will help maintain the performance and appearance of your speakers.

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker grilles and frames. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the speaker cone or voice coil area.
- **Avoid Chemicals:** Do not use harsh cleaning agents, solvents, or abrasive materials, as these can damage the speaker's finish and components.
- **Environmental Protection:** While designed for automotive use, protect speakers from direct exposure to extreme sunlight, dust, and moisture when possible, especially if installed in open-air environments.

## TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound from Speaker	Loose or incorrect wiring connection; Blown fuse in amplifier/head unit; Speaker damage.	Check all wiring connections for proper polarity and secure fit. Inspect fuses. If speaker is damaged, replacement may be necessary.
Distorted Sound	Volume too high; Amplifier clipping; Incorrect audio settings; Damaged speaker cone/surround.	Reduce volume. Check amplifier gain settings. Adjust bass/treble. Inspect speaker for physical damage.
Weak or Muffled Sound	Incorrect wiring polarity; Speaker impedance mismatch; Poor audio source quality.	Verify correct wiring polarity (+ to +, - to -). Ensure amplifier/head unit is compatible with 4 ohms. Try a different audio source.
Intermittent Sound	Loose wiring; Vibrations causing disconnections.	Secure all wiring connections. Use zip ties or clips to prevent wires from moving.

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

## SPECIFICATIONS

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Key technical specifications for the Cadence Acoustic S Q693 speakers:

- **Speaker Type:** 6x9-Inch 3-Way Coaxial Car Speakers
- **Power Handling:** Peak: 300 watts per pair / RMS: 120 watts per pair
- **Cone Material:** Polypropylene cone with Rubber surround

- **Tweeter:** 1/2-Inch semi-dome PEI tweeter
- **Impedance:** 4 ohms
- **Frequency Response:** 55-20,000 Hz
- **Sensitivity:** 90dB
- **Top-mount Depth:** 3.25-Inch
- **Product Dimensions:** 19.05 x 17.78 x 19.05 cm (7.5 x 7 x 7.5 inches)
- **Item Weight:** 2.25 Kilograms (4.96 lbs)
- **Model Number:** Q693

## WARRANTY AND SUPPORT

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Cadence products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your purchase or visit the official Cadence website. Keep your proof of purchase for warranty claims.

For further assistance, please contact Cadence customer service.