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› Pioneer TS-A6986R A-Series 6x9 Inch 600W 4-Way Car Speakers User Manual

PIONEER TS-A6986R

Pioneer TS-A6986R A-Series 6x9 Inch 600W 4-Way Car Speakers User Manual

Model: TS-A6986R

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Pioneer TS-A6986R A-Series 6x9 inch 600W 4-Way Car Speakers. Please read this manual thoroughly before installation and use to ensure optimal performance and safety. These speakers are designed to enhance your vehicle's audio system with improved sound quality and dynamic range.

SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- **Professional Installation Recommended:** If you are unsure about the installation process, consult a qualified professional.
- **Disconnect Battery:** Before starting any electrical work, disconnect the vehicle's negative battery terminal to prevent short circuits.
- **Proper Wiring:** Ensure all wiring connections are secure and correctly polarized. Incorrect wiring can damage the speakers or your vehicle's electrical system.
- **Mounting Security:** Securely mount the speakers to prevent them from becoming loose during vehicle operation, which could cause injury or damage.
- **Avoid Water Exposure:** These speakers are not waterproof. Avoid exposing them to water or excessive moisture.
- **Volume Control:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a comfortable level.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Pioneer TS-A6986R A-Series 6" X 9" 600-watt 4-way Speakers (2 units)
- Mounting Screws
- Speaker Grilles (if included with specific model variant)

- Connection Cables (if included)



Image: Pioneer TS-A6986R A-Series 6x9 inch 4-Way Car Speakers. This image displays the front view of the speaker, highlighting its cone and tweeter design.

SETUP AND INSTALLATION

Proper installation is crucial for optimal sound performance. Follow these general guidelines:

1. Mounting Location

- These 6x9 inch speakers are typically installed in rear decks or door panels designed for this size.
- Ensure there is sufficient depth and clearance behind the mounting surface for the speaker magnet and wiring.
- Verify that the mounting surface is sturdy and free from obstructions.

2. Wiring Connections

- Connect the speaker wires from your amplifier or head unit to the speaker terminals.
- Observe correct polarity: connect the positive (+) terminal of the speaker to the positive (+) output of the amplifier/head unit, and the negative (-) terminal to the negative (-) output. Incorrect polarity will result in poor bass response and degraded sound quality.
- Use appropriate gauge speaker wire for your system to minimize signal loss.
- Secure all connections to prevent accidental disconnection or short circuits.

3. Securing the Speakers

- Place the speaker into the mounting opening.

- Align the screw holes and use the provided mounting screws to secure the speaker firmly. Do not overtighten.
- If using speaker grilles, attach them according to the manufacturer's instructions.

OPERATING YOUR SPEAKERS

Once installed, your Pioneer TS-A6986R speakers will reproduce audio from your car's head unit or amplifier. Follow these general operating tips:

- **Initial Power-Up:** After installation, reconnect your vehicle's battery. Turn on your car's audio system at a low volume.
- **Volume Adjustment:** Gradually increase the volume to a comfortable listening level. Avoid setting the volume too high, which can cause distortion and potentially damage the speakers.
- **Audio Settings:** Use your head unit's equalizer (EQ), balance, and fader controls to fine-tune the sound to your preference. Adjusting the fader can help balance the sound between front and rear speakers.
- **Break-in Period:** Speakers may require a short break-in period (typically several hours of normal use) to achieve their full sound potential.

MAINTENANCE

To ensure the longevity and performance of your speakers, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Avoid touching the speaker cone directly.
- **Environmental Protection:** Keep speakers away from direct sunlight and extreme temperatures when possible, as these can degrade materials over time.
- **Regular Inspection:** Periodically check mounting screws for tightness and wiring connections for security.

TROUBLESHOOTING

If you encounter issues with your 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 disconnected wiring ◦ Incorrect polarity ◦ Head unit/amplifier issue 	<ul style="list-style-type: none"> ◦ Check all speaker wire connections at both the speaker and the head unit/amplifier. ◦ Verify correct positive (+) and negative (-) connections. ◦ Test with another known working speaker or audio source.
Distorted or unclear sound	<ul style="list-style-type: none"> ◦ Volume too high, causing clipping ◦ Loose mounting ◦ Damaged speaker cone ◦ Incorrect audio settings (EQ) 	<ul style="list-style-type: none"> ◦ Reduce volume. ◦ Ensure speakers are securely mounted. ◦ Inspect speaker cone for visible damage. ◦ Adjust EQ settings on your head unit.

Problem	Possible Cause	Solution
Weak or no bass	<ul style="list-style-type: none"> Incorrect wiring polarity Phase issues Insufficient power 	<ul style="list-style-type: none"> Double-check speaker wire polarity for all speakers. Ensure all speakers are wired in phase. Verify amplifier output matches speaker requirements.

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

SPECIFICATIONS

Model Name	TS-A6986R
Speaker Type	4-Way Coaxial Speaker (Woofers, Midrange, Tweeter, Super Tweeter)
Speaker Size	6 x 9 inches
Maximum Power Output	600 Watts
Nominal Power Handling (RMS)	100 Watts
Impedance	4 Ohms
Woofers Material	Multilayer Mica Matrix Cone
Tweeter Type	Soft-dome Tweeter With Wave Guide
Product Dimensions (D x W x H)	14.4"D x 11.2"W x 5.5"H (Packaging dimensions, actual speaker dimensions vary)
Item Weight (per speaker)	Approximately 2 Pounds
Connectivity Technology	Auxiliary, RCA (for connection to head unit/amplifier)
Included Components	2x TS-A6986R Speakers, Mounting Hardware

WARRANTY INFORMATION

The Pioneer TS-A6986R speakers come with a **1 Year Warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms, conditions, and to initiate a warranty claim, please refer to the warranty card included with your product or visit the official Pioneer website.

SUPPORT

For further assistance, technical support, or inquiries regarding your Pioneer TS-A6986R speakers, please contact Pioneer customer service. You can typically find contact information on the official Pioneer website or within the product packaging.

Pioneer Official Website: www.pioneerelectronics.com



