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Pioneer TS-A653CH

Pioneer A-Series MAX TS-A653CH 6.5” 2-Way Speakers User Manual

Model: TS-A653CH

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Pioneer A-Series MAX TS-A653CH 6.5” 2-Way Component Speakers. Please read this manual thoroughly before use to ensure optimal performance and safety.
The Pioneer TS-A653CH speakers are designed to deliver enhanced sound quality and performance for your car's audio system. Featuring a 2-way component design, these speakers provide crisp highs, clear vocals, and enhanced bass, making them an ideal factory upgrade. The system includes 6-1/2" multi-fit installation adapters and various tweeter mounting options for versatile integration into a wide range of vehicle models.

Safety Information

- Always ensure the vehicle's ignition is off and the battery is disconnected before beginning any installation work to prevent electrical shorts and damage.
- Consult a professional installer if you are unsure about any part of the installation process. Improper installation can lead to damage to the speakers, vehicle, or personal injury.
- Do not expose speakers to excessive moisture or extreme temperatures.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits and fire hazards.
- Avoid playing audio at excessively high volumes for prolonged periods, as this can cause hearing damage and speaker damage.
- Keep small parts and packaging materials out of reach of children to prevent choking hazards.

Package Contents

Verify that all items are present in the package:

- (2) Woofers
- (2) Tweeters (with attached 10" speaker leads terminated with quick-connects)
- (2) Multi-application woofer mounting brackets

- (2) Lengths of speaker wire (each has quick slides to connect to the woofer-a 40" tweeter output leg with integrated crossover-and an 11" input leg)
- (2) Tweeter angled surface mount housings



Image: Complete set of Pioneer TS-A653CH 6.5-inch 2-way component speakers, including woofers and tweeters.

Setup and Installation

The Pioneer TS-A653CH speakers are designed for easy installation with multi-fit adapters. Follow these general steps for installation. Specific vehicle requirements may vary.

1. Preparation

- Disconnect the vehicle's negative battery terminal.
- Remove existing speakers and trim panels carefully.
- Identify speaker wiring in your vehicle.

2. Woofer Installation

Use the included multi-fit installation adapters. These adapters can be modified by breaking off or cutting tabs to match your vehicle's original speaker mounting points.

- Attach the woofer to the appropriate multi-fit adapter.
- Connect the speaker wires to the woofer terminals (positive to positive, negative to negative).
- Mount the woofer assembly into the vehicle's speaker opening using appropriate screws.



Image: Close-up view of a Pioneer speaker cone, highlighting the midrange and tweeter drivers optimized for automotive applications.

3. Tweeter Installation

The system includes various tweeter mounts for surface mounting, flush mounting, and multi-fit adapters for OE tweeter locations. The integrated/in-line crossover network simplifies wiring.

- Choose the appropriate tweeter mount for your desired location.
- Connect the tweeter leads to the designated tweeter output leg of the speaker wire with the integrated crossover.
- Secure the tweeter in its chosen location.



Image: An illustration showing the internal components of a Pioneer A Series Max speaker, emphasizing quality and efficiency.

4. Wiring and Connections

- Ensure all connections are tight and insulated.
- Route speaker wires away from moving parts and heat sources.
- Reconnect the vehicle's negative battery terminal.

Operating Your Speakers

Once installed, your Pioneer TS-A653CH speakers will operate as part of your vehicle's audio system. No specific user controls are present on the speakers themselves.

- **Power Handling:** These speakers have a maximum power handling of 370 watts and a continuous power handling of 85 watts. Ensure your amplifier or head unit's output does not exceed these ratings to prevent damage.
- **Sound Adjustment:** Adjust bass, treble, and balance settings on your car's head unit or amplifier to optimize sound quality to your preference.

- **Break-in Period:** Like all new speakers, a short break-in period (typically 20-50 hours of normal use) may be beneficial for optimal sound performance.



Image: Two Pioneer speakers illustrating their capability to produce crisp highs and deep lows for a dynamic audio experience.

Maintenance

Pioneer TS-A653CH speakers require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker grilles and surrounds. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check speaker connections for tightness and ensure no wires are frayed or exposed.
- **Environmental Protection:** While designed for automotive use, avoid direct exposure to excessive water or extreme temperatures.

Troubleshooting

If you experience issues with your Pioneer TS-A653CH speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Loose wiring connection; Amplifier/head unit issue; Speaker damage.	Check all speaker wire connections. Ensure amplifier/head unit is powered on and functioning. Test with another known-good speaker if possible.
Distorted sound	Overpowering speakers; Loose connections; Incorrect impedance match; Damaged speaker.	Reduce volume. Check wiring. Ensure amplifier impedance matches speaker impedance (4 Ohm). Inspect speaker cone for damage.
Weak or no bass	Incorrect wiring (phase); Low-pass filter setting; Speaker not sealed properly.	Verify correct positive/negative wiring. Adjust bass settings on head unit/amplifier. Ensure speaker is securely mounted and sealed.
No sound from tweeter	Loose tweeter connection; Damaged tweeter or crossover.	Check tweeter wiring. Inspect the integrated crossover for damage.

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

Specifications

Feature	Specification
Model Name	A Series
Speaker Type	Component
Mounting Type	Flush Mount
Speaker Size	6.5 Inches
Woofer Diameter	6.5 Inches
Tweeter Diameter	20 Millimeters
Maximum Output Power	370 Watts
Continuous Power Handling	85 Watts
Impedance	4 Ohm
Frequency Response	33 Hz to 58 kHz
Sensitivity	91 dB
Product Dimensions	2.63"D x 6.5"W x 6.5"H
Item Weight	1.8 Pounds

Feature	Specification
Color	Bronze
Country of Origin	Vietnam
Connectivity Technology	Coaxial
Recommended Uses	For Vehicles



Image: A detailed cutaway view of a Pioneer speaker, illustrating its high sensitivity design for clear and loud sound.

Warranty and Support

Pioneer products are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Pioneer website.

- **Online Support:** For frequently asked questions, product registration, and software updates, visit the Pioneer

support website.

- **Contact Support:** If you require technical assistance or service, please contact Pioneer customer support. Contact information can typically be found on the Pioneer website or in your product documentation.
- **User Manual (PDF):** An electronic version of this user manual is available for download:Download PDF Manual

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