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› [PIONEER](#) /

› PIONEER TS-A6990F 5-Way Car Audio Speakers Instruction Manual

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Model: TS-A6990F

1. INTRODUCTION

Thank you for choosing PIONEER TS-A6990F 5-Way Car Audio Speakers. These speakers are engineered to deliver enhanced sound quality and performance for your vehicle's audio system. Featuring a 5-way design, they incorporate separate drivers to reproduce different frequency ranges, resulting in accurate and balanced sound reproduction. This manual provides essential information for proper installation, operation, and maintenance to ensure you achieve the best possible audio experience.

2. SAFETY INFORMATION

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

- **Professional Installation Recommended:** If you are unsure about any aspect of installation, consult a qualified professional.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits and electrical shock.
- **Proper Wiring:** Ensure all wiring connections are secure and correctly polarized. Incorrect wiring can damage the speakers or your vehicle's audio 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 Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a comfortable level.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 pair of PIONEER TS-A6990F 5-way speakers

- 2 Bottom-mount brackets
- 2 Speaker grilles
- 2 lengths of speaker wire (12 inches each)
- 8 Various mounting screws

4. INSTALLATION

The PIONEER TS-A6990F speakers are designed for easy installation, often utilizing existing factory speaker locations. Multi-fit installation adapters are included to enhance flexibility and acoustic performance.

4.1 Preparation

1. Disconnect the vehicle's negative battery terminal.
2. Remove the existing factory speakers from their mounting locations.
3. Inspect the mounting area for any obstructions or damage.

4.2 Using Multi-Fit Adapters

The included multi-fit installation adapters can be modified to suit various applications. Carefully break off or cut the easy-to-remove tabs until the adapter's shape and mounting points align with your vehicle's original speaker opening.



Figure 1: Side view of the TS-A6990F speaker, illustrating its depth and potential mounting points for adapter customization.

4.3 Wiring Connections

Connect the provided speaker wires to the terminals on the TS-A6990F speakers. Ensure correct polarity (positive to positive, negative to negative) to avoid phase issues that can negatively impact sound quality. Connect the other end of the speaker wires to your vehicle's head unit or amplifier outputs.

4.4 Mounting the Speakers

1. Place the speaker into the prepared mounting location, using the multi-fit adapter if necessary.
2. Secure the speaker using the supplied mounting screws. Do not overtighten.

3. Attach the speaker grilles (if desired) over the speakers.



Figure 2: A pair of PIONEER TS-A6990F speakers with their protective grilles in place, ready for installation.



Figure 3: Top view of the TS-A6990F speaker without its grille, revealing the multi-driver array for full-range sound reproduction.

5. OPERATION

Once installed, the PIONEER TS-A6990F speakers will function as part of your car's audio system. Their 5-way design ensures a broad frequency response from 22 Hz to 25 kHz, delivering clear highs, detailed mids, and enhanced bass.

- **Power Handling:** These speakers have a maximum power handling of 700 watts and a continuous power handling of 120 watts. Ensure your amplifier or head unit's output power is within these limits to prevent damage.
- **Sensitivity:** With a sensitivity rating of 90 dB, these speakers can produce clear and loud sound even with lower power inputs, minimizing distortion at higher volume levels.
- **Audio Settings:** Adjust the equalizer and other audio settings on your head unit or amplifier to fine-tune the

sound to your personal preference.



Figure 4: An internal cross-section view of a speaker, highlighting the various components that contribute to its 5-way audio reproduction.

6. MAINTENANCE

To ensure the longevity and optimal performance of your PIONEER TS-A6990F speakers, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Avoid Direct Sunlight:** Prolonged exposure to direct sunlight can degrade speaker materials over time.
- **Check Connections:** Periodically check all wiring connections to ensure they remain secure.

7. TROUBLESHOOTING

If you experience issues with your speakers, refer to the following common troubleshooting steps:

- **No Sound:**
 - Check all wiring connections for looseness or incorrect polarity.
 - Verify that the head unit or amplifier is powered on and functioning correctly.
 - Ensure the volume is turned up and not muted.
- **Distorted Sound:**
 - Reduce the volume level.
 - Check for proper power handling; the speakers may be overdriven.
 - Inspect speaker cones for any physical damage.
- **Uneven Sound:**
 - Check balance and fader settings on your head unit.

- Ensure all speakers are wired with correct polarity.

If problems persist after attempting these steps, consult a professional car audio technician.

8. SPECIFICATIONS

Detailed technical specifications for the PIONEER TS-A6990F speakers:

Specification	Value
Model Name	TS-A6990F
Speaker Type	Coaxial, 5-Way
Speaker Size	6 x 9 Inches
Maximum Output Power	700 Watts
Continuous Power Handling	120 Watts
Frequency Response	22 Hz to 25 kHz
Sensitivity	90 dB
Impedance	4 Ohm
Material	Aluminum (Cone)
Product Dimensions (D x W x H)	4.38" x 10.38" x 7.25"
Item Weight	2.2 pounds (1 Kilogram)
Connectivity Technology	Wired
Recommended Uses	Car
Water Resistance Level	Not Water Resistant

9. WARRANTY AND SUPPORT

PIONEER TS-A6990F speakers come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official Pioneer website. For technical support or service inquiries, please contact Pioneer customer service.

Online Resources: For additional information, FAQs, and support, visit the official Pioneer website: www.pioneerelectronics.com

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