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› **Pioneer TS-A2500LB 10-inch Slim Pre-Loaded Subwoofer Instruction Manual**

**PIONEER TS-A2500LB**

# Pioneer TS-A2500LB 10-inch Slim Pre-Loaded Subwoofer Instruction Manual

Model: TS-A2500LB

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Pioneer TS-A2500LB 10-inch Slim Pre-Loaded Subwoofer. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance. Retain this manual for future reference.



Figure 1: Pioneer TS-A2500LB 10-inch Slim Pre-Loaded Subwoofer. This image shows the front view of the subwoofer within its carpeted enclosure, featuring a protective steel mesh grille over the speaker cone.

## 2. PACKAGE CONTENTS

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Verify that all items listed below are included in your package:

- One (1) 10-inch Pre-loaded Subwoofer sealed Enclosure
- Four (4) Threaded feet
- Two (2) Mounting brackets
- Four (4) Adhesive feet cushions
- Eight (8) Mounting Screws
- One (1) Instruction Manual (this document)
- One (1) 1 Year Warranty Sheet

## 3. KEY FEATURES

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The Pioneer TS-A2500LB subwoofer is designed with the following features:

- **High Performance Audio:** Engineered to complement Pioneer A-series full-range speakers, delivering dynamic bass.
- **Powerful Bass Output:** Features 1200W maximum power and 300W nominal power, utilizing a Glass-Fiber & Mica Reinforced IMPP cone for detailed and powerful bass.
- **Customizable Sound:** Connects to an external amplifier for tailored bass settings and audio control.
- **Easy Compatibility:** 2Ω Single Voice Coil (SVC) design for simplified wiring and efficient power handling

with compatible amplifiers.

- **Flexible Installation:** Can be positioned upright, facing upwards, or in a down-firing orientation. Includes removable feet and pads for stability.
- **Compact Design:** Shallow enclosure (20.875" x 11.750" x 5.875") suitable for tight spaces, including various vehicle types.
- **Durable Construction:** Fully carpeted, non-slip enclosure with an embroidered Pioneer logo and steel mesh grille for protection.



Figure 2: The TS-A2500LB subwoofer with its protective grille removed, showcasing the speaker cone. This illustrates the A-Series design for dynamic bass.

## 4. SETUP AND INSTALLATION

### 4.1 Placement Options

The TS-A2500LB offers flexible placement to optimize bass response in your vehicle. Consider the following orientations:

- **Upright:** Position the subwoofer vertically.
- **Facing Upwards:** Lay the subwoofer flat with the speaker cone facing the ceiling of the vehicle.

- **Down-firing:** Lay the subwoofer flat with the speaker cone facing the floor of the vehicle.

Use the included threaded feet and adhesive cushions to secure the subwoofer and prevent movement, especially in down-firing configurations.



Figure 3: The subwoofer shown with its removable feet, illustrating flexible positioning options for optimal bass response.

## 4.2 Wiring Connections

Connect the subwoofer to a compatible external amplifier. The TS-A2500LB features angled binding-post push terminals for secure and easy speaker wire connections.

1. Ensure your amplifier is turned off and disconnected from power before making any connections.
2. Connect the positive (+) terminal of the subwoofer to the positive (+) output of your amplifier.
3. Connect the negative (-) terminal of the subwoofer to the negative (-) output of your amplifier.
4. Ensure all connections are secure to prevent signal loss or short circuits.

This subwoofer has a 2Ω Single Voice Coil (SVC) design. Refer to your amplifier's manual for proper wiring configurations to match the impedance.

# Quick & simple installation

Angled binding-post push terminals makes connecting speaker wires even easier.

MAX  
1200 W

CONT.  
300 W

POWER HANDLING

Pioneer

**A** SERIES



TS-A2500LB

Figure 4: Rear view of the TS-A2500LB enclosure, highlighting the angled binding-post push terminals for speaker wire connections.

## 5. OPERATION

Once properly installed and connected to an amplifier, the subwoofer will reproduce low-frequency audio signals. The sound quality and volume are controlled by your external amplifier and head unit.

- **Amplifier Settings:** Adjust gain, crossover frequency, and bass boost settings on your amplifier to achieve desired bass response.
- **Head Unit Control:** Use your car's head unit to fine-tune overall audio levels, including subwoofer output if available.

Start with low volume settings and gradually increase to prevent damage to the subwoofer or other audio components.

88 dB  
SENSITIVITY

20 Hz–1.0 kHz  
RESPONSE

# High volume, clear sound

Quality components deliver  
less distortion and superior  
bass frequency response.



**Pioneer**

**A** SERIES

**TS-A2500LB**

Figure 5: The subwoofer displaying its sensitivity (88 dB) and frequency response (20 Hz - 1.0 kHz), indicating its capability for high volume and clear sound reproduction.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your subwoofer, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the enclosure and grille. Avoid abrasive cleaners or solvents.
- **Protection:** The steel mesh grille provides protection for the speaker cone. Avoid placing heavy objects on the subwoofer or exposing it to sharp impacts.
- **Environmental Conditions:** Keep the subwoofer away from direct sunlight, extreme temperatures, and excessive moisture.
- **Connection Check:** Periodically inspect wiring connections for tightness and corrosion.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound from subwoofer	<ul style="list-style-type: none"> <li>• Loose or incorrect wiring connections.</li> <li>• Amplifier is off or in protect mode.</li> <li>• Incorrect amplifier settings (e.g., gain too low, crossover set too high).</li> <li>• Head unit subwoofer output disabled or volume too low.</li> </ul>	<ul style="list-style-type: none"> <li>• Check all wiring connections for tightness and correct polarity.</li> <li>• Verify amplifier power and status indicators.</li> <li>• Adjust amplifier gain and crossover settings.</li> <li>• Check head unit audio settings for subwoofer output.</li> </ul>
Distorted or unclear bass	<ul style="list-style-type: none"> <li>• Amplifier gain set too high.</li> <li>• Incorrect crossover frequency.</li> <li>• Subwoofer enclosure not secure.</li> <li>• Damaged speaker cone.</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce amplifier gain.</li> <li>• Adjust crossover frequency to filter out higher frequencies.</li> <li>• Ensure subwoofer is securely mounted.</li> <li>• Inspect speaker cone for physical damage.</li> </ul>
Subwoofer cuts out intermittently	<ul style="list-style-type: none"> <li>• Loose wiring connections.</li> <li>• Amplifier overheating or going into protect mode.</li> <li>• Inadequate power supply to amplifier.</li> </ul>	<ul style="list-style-type: none"> <li>• Check and secure all wiring.</li> <li>• Ensure proper ventilation for the amplifier.</li> <li>• Verify power and ground connections to the amplifier.</li> </ul>

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

## 8. SPECIFICATIONS

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Subwoofer



Figure 6: Dimensional diagram of the TS-A2500LB subwoofer enclosure, showing its height (11.75 inches), width (20.875 inches), and depth (5.875 inches).

Feature	Specification
Model Name	TS-A2500LB
Speaker Type	Subwoofer
Subwoofer Diameter	10 Inches
Speaker Maximum Output Power	1200 Watts (Max)
Nominal Power (RMS)	300 Watts
Impedance	2 Ohms (Single Voice Coil)
Frequency Response	20 Hz - 1.0 kHz
Signal-to-Noise Ratio	86 dB

Feature	Specification
Sensitivity	88 dB
Enclosure Material	Particle Board
Product Dimensions (D x W x H)	5.88" x 20.88" x 11.75" (150mm x 530mm x 300mm)
Item Weight	8.8 pounds (4 Kilograms)
Connectivity Technology	Wired
Included Components	Subwoofer enclosure, threaded feet, mounting brackets, adhesive feet cushions, mounting screws, instruction manual, warranty sheet.

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

This Pioneer TS-A2500LB subwoofer comes with a **1 Year Limited Warranty**. Please refer to the included "1 Year Warranty Sheet" for complete details regarding coverage, terms, and conditions.

### 9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Pioneer customer support. Contact information can typically be found on the Pioneer official website or on the warranty sheet provided with your product.

You can visit the official Pioneer website for additional resources and support: [www.pioneerelectronics.com](http://www.pioneerelectronics.com)

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