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PIONEER TS-A300B

Pioneer TS-A300B 12-inch Pre-Loaded Subwoofer System User Manual

Model: TS-A300B

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Pioneer TS-A300B 12-inch Pre-Loaded Subwoofer System. Please read this manual thoroughly before use to ensure optimal performance and safety. The Pioneer TS-A300B is designed to deliver dynamic, high-impact bass, complementing your vehicle's full-range loudspeakers for a seamless audio experience. Its passive, non-amplified design offers flexibility for integration into various car audio setups.

Key Features:

- 12-inch pre-loaded bass-reflex (ported) subwoofer system.
- Passive (non-amplified) design for system flexibility.
- Glass fiber and mica interlaced Injection Molding Polypropylene (IMPP) cone construction for durability and sound quality.

SAFETY INFORMATION

Important Safety Instructions:

- Read all instructions carefully before installation and use.
- Do not expose the subwoofer to moisture or extreme temperatures.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Consult a qualified professional for installation if you are unsure about any steps.
- **WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WHAT'S IN THE BOX

Upon unpacking your Pioneer TS-A300B system, please verify that all components are present and undamaged:

- Pioneer TS-A300B 12-inch Pre-Loaded Subwoofer System
- User Manual (this document)

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. If you are not experienced with car audio installations, it is highly recommended to seek professional assistance.

1. Choosing a Location:

Select a secure location in your vehicle, typically the trunk or cargo area, where the subwoofer will not obstruct visibility or passenger movement. Ensure the enclosure is firmly mounted to prevent movement during driving.



Image: The Pioneer TS-A300B 12-inch Pre-Loaded Subwoofer System, showcasing its robust enclosure and speaker cone. This image illustrates the product's physical appearance and design.

2. Wiring Connections:

The TS-A300B is a passive subwoofer and requires an external amplifier (not included) for operation. Follow these general wiring guidelines:

- **Power Wire:** Connect a heavy-gauge power wire directly from your vehicle's battery to the amplifier. Include an in-line fuse near the battery.
- **Ground Wire:** Connect a heavy-gauge ground wire from the amplifier to a clean, unpainted metal surface on the vehicle's chassis.
- **Remote Turn-On Wire:** Connect a remote turn-on wire from your head unit (or other switched 12V source) to the amplifier's remote input.
- **RCA Signal Cables:** Connect RCA cables from your head unit's subwoofer output (or full-range output with a line output converter) to the amplifier's input.
- **Speaker Wire:** Connect speaker wire from the amplifier's output to the subwoofer's terminals. Ensure correct polarity (+ to + and - to -). The TS-A300B has an impedance of 2 Ohms. Verify your amplifier is stable at this impedance.

Refer to your amplifier's instruction manual for specific wiring diagrams and recommendations.

OPERATING INSTRUCTIONS

Once the subwoofer system is properly installed and connected to an amplifier, follow these steps for initial operation:

1. **Initial Amplifier Settings:** Before turning on your audio system, set your amplifier's gain (input sensitivity) to its minimum level. Set the low-pass filter (LPF) to an appropriate frequency, typically between 80 Hz and 120 Hz, to ensure the subwoofer only reproduces low frequencies.

2. **Power On:** Turn on your car's audio system. Gradually increase the volume on your head unit.
3. **Adjusting Gain:** Slowly increase the amplifier's gain control until you achieve a balanced bass output that blends well with your main speakers, without distortion. Do not set the gain too high, as this can lead to clipping and damage to the subwoofer.
4. **Phase Control:** If your amplifier or head unit has a phase control (0°/180°), experiment with both settings to find the one that provides the most impactful and cohesive bass response.
5. **Break-in Period:** Allow a break-in period of approximately 10-20 hours of moderate listening before operating the subwoofer at high volumes. This allows the suspension components to loosen and perform optimally.

Always listen for signs of distortion. If you hear distortion, reduce the volume or adjust amplifier settings immediately.

MAINTENANCE

The Pioneer TS-A300B is designed for durability, but proper care will ensure its longevity and performance.

- **Cleaning:** Use a soft, dry cloth to wipe down the enclosure and speaker cone. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the finish or speaker materials.
- **Environmental Conditions:** Avoid exposing the subwoofer to direct sunlight for extended periods, extreme heat, or excessive moisture. While the product is not waterproof, reasonable care in a vehicle environment is expected.
- **Connection Checks:** Periodically check all wiring connections to ensure they remain secure and free from corrosion.

TROUBLESHOOTING

If you experience issues with your subwoofer system, consult the following troubleshooting guide before seeking professional service.

No Sound from Subwoofer:

- **Check Power:** Ensure the amplifier is receiving power (power indicator light should be on). Check the in-line fuse near the battery and the amplifier's fuses.
- **Check Ground:** Verify the amplifier's ground connection is secure and making good contact with the chassis.
- **Check Remote Turn-On:** Confirm the remote turn-on wire is connected and receiving 12V when the head unit is on.
- **Check Signal:** Ensure RCA cables are securely connected at both the head unit and amplifier. Test with another audio source if possible.
- **Check Speaker Wires:** Verify speaker wires are correctly connected to both the amplifier and the subwoofer, with correct polarity.
- **Amplifier Settings:** Ensure amplifier gain is not at minimum, and the low-pass filter is correctly set.

Distorted Sound:

- **Gain Too High:** Reduce the amplifier's gain setting.
- **Clipping:** If the amplifier's clip indicator is on, reduce the gain or head unit volume.
- **Crossover Settings:** Adjust the low-pass filter (LPF) on your amplifier or head unit. If the LPF is set too high, the subwoofer may be trying to play frequencies it's not designed for.
- **Loose Connections:** Check all wiring for loose connections or frayed wires.
- **Damaged Speaker:** If distortion persists at low volumes and with correct settings, the subwoofer may be damaged.

SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Name	TS-A300B
Speaker Type	Subwoofer
Subwoofer Diameter	12 Inches (30 Centimeters)
Impedance	2 Ohms
Speaker Maximum Output Power	1500 Watts
Recommended Uses For Product	Music (enhanced bass)
Compatible Devices	Car Audio System
Product Dimensions	1"D x 1"W x 1"H <i>(Note: These dimensions appear to be placeholder values and may not reflect the actual enclosure size.)</i>
Item Weight	33.3 Pounds
Color	Black
Manufacturer	Pioneer
UPC	884938416900

Note: Specifications are subject to change without notice.

WARRANTY AND SUPPORT

This Pioneer TS-A300B Subwoofer System comes with a **Limited Warranty**. Please refer to the warranty card included with your purchase or visit the official Pioneer website for detailed terms and conditions regarding warranty coverage, duration, and claims procedures.

For technical support, service, or further inquiries, please contact Pioneer customer service through their official website or the contact information provided in your warranty documentation. When contacting support, please have your model number (TS-A300B) and proof of purchase readily available.

Online Resources: For additional information, FAQs, and product registration, visit the official Pioneer website:

www.pioneerelectronics.com

