PIONEER TS-WX130DA

Pioneer TS-WX130DA Compact Active Subwoofer User Manual

Model: TS-WX130DA

1. Introduction

Thank you for purchasing the Pioneer TS-WX130DA Compact Active Subwoofer. This manual provides essential information for the safe and effective installation, operation, and maintenance of your new subwoofer. Please read this manual thoroughly before use and keep it for future reference.

The TS-WX130DA is designed to deliver powerful and impactful bass from a compact form factor, making it an ideal audio upgrade for vehicles with limited space. It features a built-in Class D amplifier and Pioneer's DIGITAL BASS CONTROL for optimized sound performance.



Figure 1.1: The Pioneer TS-WX130DA Compact Active Subwoofer, showcasing its compact design and durable enclosure.

2. Safety Information

Always observe the following safety precautions to prevent injury, damage to the product, or damage to your vehicle.

- **Professional Installation Recommended:** Due to the complexity of vehicle electrical systems, professional installation is highly recommended. Incorrect wiring can cause serious damage or fire.
- **Power Source:** Connect the subwoofer only to a 12V DC negative ground electrical system.
- **Wiring:** Ensure all wiring is securely connected and properly insulated to prevent short circuits. Use the specified fuse (10A ATO) for power protection.
- **Mounting Location:** Mount the subwoofer securely in a location that does not obstruct driving, interfere with vehicle controls, or pose a hazard in case of sudden stops or accidents. Avoid locations exposed to direct sunlight, extreme heat, or moisture.
- **Volume Levels:** Avoid listening at excessively high volume levels for prolonged periods, as this can cause hearing damage.
- **Disassembly:** Do not attempt to disassemble or modify the unit. This can lead to electric shock, fire, or damage to the product, and will void the warranty.

3. Package Contents

Verify that all items are present in the package before proceeding with installation:

- (1) Pioneer TS-WX130DA 8" x 5-1/4" subwoofer with built-in amplifier in sealed enclosure
- (1) Power and ground wire harness
- (1) Signal Input Wire Harness
- (1) 10A ATO fuse (installed on power wire)
- (1) Wired Digital Bass Control with attached 16.25' cable

4. Setup and Installation

The compact design of the TS-WX130DA allows for flexible installation in various vehicle types and applications, such as under seats or in small trunk spaces. Its dimensions are approximately 11" W x 7.875" D x 2.75" H.



Figure 4.1: Example of the TS-WX130DA installed discreetly under a car seat, demonstrating its compact size and versatile placement options.

4.1. Choosing an Installation Location

Select a location that is:

- Secure and stable, preventing movement during driving.
- Away from direct heat sources, moisture, and excessive vibration.
- Accessible for wiring connections and future adjustments if necessary.
- Does not interfere with vehicle operation or safety features.

4.2. Wiring Connections

The TS-WX130DA offers multiple input options for connectivity to both aftermarket and Original Equipment (OE) car audio systems. Refer to the detailed wiring diagram provided in the separate installation guide for your specific vehicle and head unit.

1. **Power Connection:** Connect the power wire (typically red) from the supplied harness to the vehicle's battery (12V DC) via the included 10A ATO fuse. Ensure a secure connection and proper insulation.
2. **Ground Connection:** Connect the ground wire (typically black) to a clean, unpainted metal part of the vehicle chassis, ensuring a solid electrical ground.
3. **Remote Turn-On (ACC) Connection:** Connect the remote turn-on wire (if applicable, often blue/white) to the remote output of your head unit. This allows the subwoofer to turn on and off with your car's audio system.
4. **Signal Input:**
    - **RCA Input:** If your head unit has RCA pre-outs, use the supplied RCA signal input harness to connect to the subwoofer's RCA inputs.

- **Speaker Level Input:** If your head unit does not have RCA pre-outs, use the speaker level input harness to connect directly to your vehicle's speaker wires.

5. **Digital Bass Control Connection:** Connect the wired Digital Bass Control unit to the dedicated port on the subwoofer using its attached cable. Route the cable to a convenient location for the driver.

After all connections are made, secure the subwoofer firmly in its chosen location using appropriate mounting hardware (not included, but typically supplied with vehicle-specific mounting kits or general purpose brackets).

5. Operating Instructions

The Pioneer TS-WX130DA features a wired Digital Bass Control remote that allows you to adjust the subwoofer's output to your listening preference and vehicle interior acoustics.





Figure 5.1: The wired Digital Bass Control remote for the TS-WX130DA, showing the Gain, Frequency, Phase, and Bass Mode controls.

5.1. Digital Bass Control Functions

- **GAIN (MIN/MAX):** This knob controls the overall output level of the subwoofer. Adjust it to match the output of your main speakers. Start at MIN and slowly increase until the bass blends well with the rest of your audio system without distortion.
- **FREQUENCY (50Hz/125Hz):** This knob adjusts the low-pass filter frequency. It determines the highest frequency the subwoofer will reproduce.
    - Set to a lower frequency (closer to 50Hz) for a tighter, more defined bass that focuses on very low notes.
    - Set to a higher frequency (closer to 125Hz) to allow the subwoofer to play higher bass notes, which can fill in gaps if your main speakers have limited low-frequency response.
- **PHASE (NORM./REV.):** This switch adjusts the phase of the subwoofer's output relative to your main speakers.
    - **NORM. (Normal):** Standard phase.
    - **REV. (Reverse):** Inverts the phase. If the bass sounds weak or hollow, try switching the phase. One setting will typically sound fuller and more impactful than the other, depending on your vehicle's acoustics and speaker placement.
- **BASS MODE (DEEP/DYNAMIC):** This switch allows you to select between two distinct bass characteristics.
    - **DEEP:** Provides a rich, deep, and resonant bass response, ideal for genres that benefit from extended low frequencies.
    - **DYNAMIC:** Offers a more punchy and impactful bass, suitable for music that requires a quicker, more aggressive bass attack.

5.2. Initial Sound Adjustment

1. Start with the GAIN knob at MIN.
2. Set the FREQUENCY knob to around 80Hz-100Hz as a starting point.

3. Set the PHASE switch to NORM.
4. Select either DEEP or DYNAMIC BASS MODE based on your preference.
5. Play a piece of music with a good bass line. Slowly increase the GAIN until the subwoofer's output blends seamlessly with your main speakers. Avoid setting the gain too high, which can lead to distortion.
6. Experiment with the FREQUENCY and PHASE settings to achieve the most balanced and impactful bass response for your vehicle's interior.

6. Maintenance

The Pioneer TS-WX130DA is designed for durability and requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Do not use abrasive cleaners, waxes, or solvents, as they can damage the finish or internal components.
- **Ventilation:** Ensure that the subwoofer's ventilation areas are not blocked. Proper airflow is crucial for dissipating heat from the built-in amplifier.
- **Connections:** Periodically check all wiring connections to ensure they remain secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Fuse Replacement:** If the subwoofer stops working, check the 10A ATO fuse on the power wire. If blown, replace it only with a fuse of the same rating (10A ATO). Using a fuse with a higher rating can cause serious damage or fire.

7. Troubleshooting

If you experience issues with your TS-WX130DA, refer to the following common problems and solutions before contacting support.

Problem	Possible Cause	Solution
No sound from subwoofer.	• No power to the unit. • Loose or incorrect signal input connection. • Head unit settings incorrect. • Blown fuse.	• Check power, ground, and remote turn-on connections. • Verify signal input harness is securely connected to both subwoofer and head unit. • Ensure subwoofer output is enabled and volume is up on your head unit. • Check and replace the 10A ATO fuse if blown.
Distorted or weak bass.	• GAIN set too high or too low. • Incorrect FREQUENCY setting. • Incorrect PHASE setting. • Poor signal quality.	• Adjust GAIN knob for optimal level. • Experiment with FREQUENCY knob to find the best crossover point. • Toggle PHASE (NORM./REV.) to find the setting that provides the fullest bass. • Ensure signal cables are not damaged or running near power cables.
Subwoofer turns off intermittently.	• Overheating. • Loose power or ground connection. • Insufficient power supply.	• Ensure proper ventilation around the unit. • Check all power and ground connections for tightness. • Verify vehicle's electrical system can supply adequate current.

8. Specifications

Key technical specifications for the Pioneer TS-WX130DA Compact Active Subwoofer:

Model Name	Compact Series
Speaker Type	Subwoofer
Subwoofer Diameter	8" x 5-1/4" Rectangular (7" effective surface area)
Speaker Maximum Output Power	160 Watts Max (50 Watts RMS)
Amplifier Type	Built-in Class D
Signal-to-Noise Ratio	95 dB
Product Dimensions (D x W x H)	7.79"D x 11"W x 2.75"H
Item Weight	7.26 pounds (3.3 Kilograms)
Material	Aluminum
Power Source	Corded Electric (12V DC)
Connectivity Technology	RCA (also supports Speaker Level Input)
Included Components	Subwoofer unit, Power/Ground harness, Signal Input harness, 10A ATO fuse, Wired Digital Bass Control

9. Warranty and Support

Pioneer products are manufactured with high-quality materials and craftsmanship. For information regarding the warranty period and terms for your TS-WX130DA, please refer to the separate warranty card included with your product or visit the official Pioneer website.

For technical support, service, or inquiries about your product, please contact Pioneer customer support through their official website or the contact information provided in your product documentation. When contacting support, please have your product model number (TS-WX130DA) and serial number ready.

Official Pioneer Website: www.pioneerelectronics.com

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