

## Junsun JS-US-SUB1206

# Junsun 12-inch 800W Powered Spare Tire Car Subwoofer User Manual

Model: JS-US-SUB1206

## 1. INTRODUCTION

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Thank you for choosing the Junsun 12-inch 800W Powered Spare Tire Car Subwoofer. This product is designed to enhance your vehicle's audio system by delivering powerful, distortion-free bass. Its innovative hidden spare tire design allows for discreet installation, saving valuable trunk space and offering an anti-theft benefit. This manual provides essential information for safe installation, operation, and maintenance of your subwoofer.

## 2. SAFETY INFORMATION

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Please read all instructions carefully before installation and use. Failure to follow these instructions may result in serious injury or damage to the product or vehicle.

- Always disconnect the vehicle's negative battery terminal before beginning any electrical installation.
- Ensure proper grounding of the subwoofer to the vehicle chassis.
- Use appropriate gauge wiring as specified in the installation section to prevent overheating and electrical hazards.
- Do not install the subwoofer in a location that obstructs the driver's view or interferes with vehicle operation.
- Avoid exposing the subwoofer to moisture or extreme temperatures.
- If you are unsure about any part of the installation process, seek professional assistance.

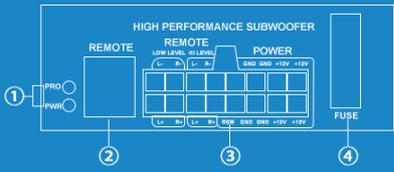
## 3. PACKAGE CONTENTS

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

- Spare tire active subwoofer (1 pc)
- Owner's Manual (English) (1 pc)
- Screw with nut (M6x200mm) (1 pc)
- Plug and play wire harness & Signal line (1 pc)
- Remote control (1 pc)

### Panel Features



- 1.LED**  
This bi-color LED glows green when power is on and no problems are present.  
If one of the protection circuits comes on, it will change to red.
- 2.REMOTE**  
Attach the included remote control to control the subwoofer independently.
- 3.CONNECTOR**  
Power and signal input terminals.
- 4.FUSE**  
Do not use a fuse with a different value and NEVER replace the fuse with a wire or coin.

### Specifications

RMS power	400W
MAX power	800W
THD	<1.0%
Signal to-noise ratio	>91dB
Frequency response	20Hz-150Hz
Input sensitivity, high level	1V
Input sensitivity, low level	0.4V
Low Pass Filter	50Hz-150Hz
Bass Boost	0 to +12dB
Subsonic Filter	20Hz
Fuse Rating	30A
Subwoofer	12inch,4ohm

All specifications subject to change without notice

### Contents

1.Spare tire active subwoofer	1.pc
2.Owner's Manual (Chinese)	1.pc
3.Owner's Manual (English)	1.pc
4.Screw with nut (M8x200mm)	1.pc
5.Plug and play wire harness&Signal line	1.pc
6.Remote control	1.pc



Figure 3.1: Included Components and Wiring Kit

## 4. PRODUCT FEATURES

- **Powerful Output Performance:** This 12-inch powered subwoofer delivers 800W peak power and 220W RMS power, ensuring powerful, distortion-free bass.
- **Innovative Hidden Spare Tire Design:** Fits perfectly into your vehicle's spare tire well, saving trunk space and offering an anti-theft benefit due to its concealed nature.
- **All-in-One Plug & Play Solution:** Integrates the subwoofer, built-in amplifier, and enclosure, and comes with a full wiring kit, simplifying installation.
- **Professional Sound Tuning Controls:** Fine-tune your sound precisely via the onboard controls or included wired remote, adjusting the Low-Pass Filter (LPF), Gain, and Bass Boost.
- **Broad Vehicle Compatibility:** Supports both high-level speaker wire input and RCA low-level input with auto turn-on functionality, integrating with most factory and aftermarket stereos.
- **Durable Cast Aluminum Enclosure:** Built with a high-strength cast aluminum enclosure for robust durability, corrosion resistance, and superior heat dissipation.
- **Multi-Layered Protection Circuitry:** Equipped with built-in triple protection against overheating, overload, and short circuits.



## Elevate your bass controls

**RMS power 400W MAX power 800W**



Figure 4.1: Hidden Spare Tire Design



Figure 4.2: Power and Control Features

## 5. SPECIFICATIONS



Figure 5.1: Panel Features and Specifications

Feature	Value
Model Name	JS-US-SUB1206
Speaker Type	Subwoofer
RMS Power	220W
MAX Power	800W
THD	<1.0%
Signal-to-Noise Ratio	>91dB
Frequency Response	20Hz-150Hz
Input Sensitivity (High Level)	1V
Input Sensitivity (Low Level)	0.4V

Feature	Value
Low Pass Filter	50Hz-150Hz
Bass Boost	0 to +12dB
Subsonic Filter	20Hz
Fuse Rating	30A
Subwoofer Diameter	12 Inches
Product Dimensions	2.95"D x 10.24"W x 13.58"H
Material	Aluminum

## 6. INSTALLATION

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The Junsun subwoofer is designed for straightforward installation. It can be placed in the spare tire well of most vehicles. Follow these general steps for installation:

- 1. Prepare the Vehicle:** Disconnect the negative terminal of your car battery. Locate your spare tire well.
- 2. Mount the Subwoofer:** Place the subwoofer securely in the spare tire well. Use the provided screw and nut to fasten it if your vehicle's spare tire mounting system allows.
- 3. Power Wiring:** Run the power wire from the subwoofer to the car's battery. Ensure the wire is properly routed and protected from sharp edges or moving parts. Connect the inline fuse holder close to the battery.
- 4. Ground Wiring:** Connect the ground wire from the subwoofer to a clean, unpainted metal surface on the vehicle chassis. Ensure a solid connection for optimal performance and safety.
- 5. Signal Input:** Connect the signal wires from your car's head unit to the subwoofer. You can use either high-level speaker wire inputs or RCA low-level inputs, depending on your head unit's capabilities.
- 6. Remote Turn-On:** Connect the remote turn-on wire to a switched 12V source from your head unit (e.g., amplifier remote output).
- 7. Connect Remote Control:** Attach the included wired remote control to the subwoofer. Route the cable to a convenient location for easy access while driving.
- 8. Final Checks:** Double-check all connections for security and proper polarity. Reconnect the negative battery terminal.

# Hidden Spare Tire Design

Mounts seamlessly on top of your spare tire, saving trunk space and deterring theft by staying completely concealed.



Figure 6.1: Subwoofer Placement in Spare Tire Well

# 12-inch Subwoofer



Figure 6.2: Wiring Diagram

## 7. OPERATION

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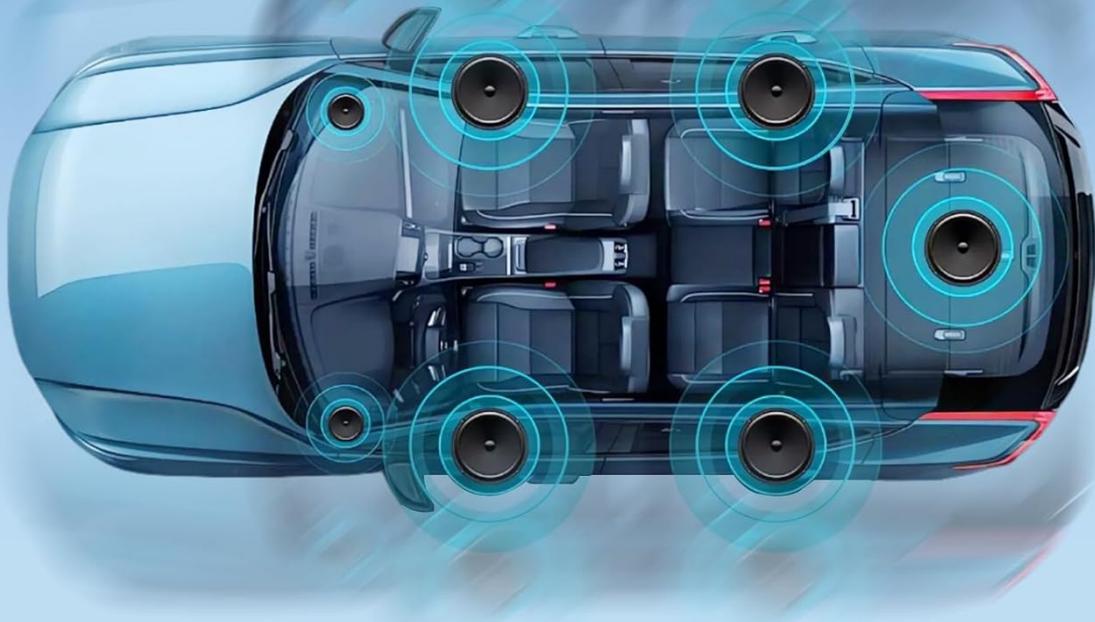
Once installed, you can control and fine-tune your subwoofer using the wired remote control.

### 7.1 Wired Remote Control

The remote control allows you to adjust key settings for optimal bass performance:

- **Gain Control (MIN/MAX):** Adjusts the overall output level of the subwoofer. Start with a low setting and gradually increase until the desired bass level is achieved without distortion.
- **Bass Boost (0dB/6dB/12dB):** Provides an additional boost to low frequencies. Use sparingly to avoid over-driving the subwoofer.
- **Low-Pass Filter (LPF) (30Hz-150Hz):** Controls the upper frequency limit of the subwoofer. Set this to blend smoothly with your main speakers.
- **Phase Switch (0°/180°):** Adjusts the phase of the subwoofer output. Experiment with both settings to find the one that provides the most cohesive bass response with your main speakers.

# 800W Peak Power



Wired Remote Controller



Support 20Hz-150Hz



Overload Protection

Figure 7.1: Wired Remote Control

## 8. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the subwoofer. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the subwoofer's enclosure has adequate airflow, especially if it's installed in a confined space. Proper ventilation helps dissipate heat and prevents overheating.
- **Wiring Inspection:** Periodically check all wiring connections for tightness and signs of wear or corrosion. Loose connections can lead to poor performance or electrical issues.
- **Fuse Replacement:** If the fuse blows, replace it only with a fuse of the same type and rating (30A). Never use a higher-rated fuse or bypass the fuse, as this can cause serious damage or fire.

## 9. TROUBLESHOOTING

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram and review the following troubleshooting tips.

### Troubleshooting

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram on the previous pages. If problems persist, read the following troubleshooting tips which may help eliminate the problems.

SYMPTOM	POSSIBLE REMEDY
Amplifier will not power up.	<ul style="list-style-type: none"> <li>Check to make sure you have a good ground connection.</li> <li>Check that the Remote Input (Turn-On) has at least 5VDC.</li> <li>Check that there's battery power on the (+) terminal.</li> <li>Check that there's at least 12V.</li> <li>Check the fuse in the power supply.</li> <li>Make sure that the Protection LED is not illuminated. If it is, shut Off the amplifier briefly, and then repower it.</li> </ul>
Protection LED comes on when amplifier is powered up	<ul style="list-style-type: none"> <li>Check for short circuits on speaker leads.</li> <li>Turn down the volume control on the head unit to prevent overdriving.</li> <li>Remove speaker leads, and reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty and needs servicing.</li> </ul>
	<ul style="list-style-type: none"> <li>Check that all fuses are OK.</li> <li>Check that unit is properly grounded.</li> <li>Check that the Remote Input (Turn-On) has at least 5VDC.</li> <li>Check that the signal cables are plugged into the proper inputs.</li> <li>Check all speaker wiring.</li> </ul>

Figure 9.1: Troubleshooting Guide (Part 1)

	<ul style="list-style-type: none"> <li>Reset the Level Control.</li> <li>Check the Crossover Control settings.</li> </ul>
High hiss in the sound.	<ul style="list-style-type: none"> <li>Disconnect all RCA inputs to the power sub's control panel. If the hiss disappears, than plug in the component driving the amplifier and unplug its inputs. If the hiss disappears at this point, go on until the faulty the component is found.</li> <li>Note: The amplifier's Input Level is activated as low as possible. The best subjective signal-to-noise ratio is achieved in this manner. Try to set the head unit as high as possible (without distortion) and the amp input level as low as possible.</li> </ul>
Squealing noise is present.	<ul style="list-style-type: none"> <li>Check for improperly grounded RCA interconnects.</li> </ul>
Distorted sound	<ul style="list-style-type: none"> <li>Check that the Input Level Control is set to match the signal level of the head unit. Always try to set the Input Level as low as possible.</li> <li>Check that all crossover frequencies are properly set.</li> <li>Check for short circuits on the speaker leads.</li> </ul>
Amplifier gets very hot.	<ul style="list-style-type: none"> <li>Check that the minimum speaker impedance for the amp model is correct.</li> <li>Check that there is good air circulation around the amp. In some applications it may be necessary to add an external cooling fan.</li> </ul>
Engine noise (static type)	<ul style="list-style-type: none"> <li>This is usually caused by poor quality RCA cables, which can pick up noise from nearby power cables. Use only the best quality cables, and route them away from power cables.</li> </ul>
Engine noise (alternator whine)	<ul style="list-style-type: none"> <li>Check that the RCA grounds are not shorted to the vehicle chassis.</li> <li>Check that the head unit is properly grounded.</li> </ul>

Figure 9.2: Troubleshooting Guide (Part 2)

## 10. WARRANTY AND CUSTOMER SUPPORT

Junsun prioritizes your satisfaction. This subwoofer comes with a 3-year replacement warranty.

For any questions or support during your audio upgrade journey, our dedicated customer service team is available 24/7 to assist you.

### 10.1 How to Contact Support

You can typically find contact information for Junsun customer support through the retailer where you purchased the product or on the official Junsun website.



Figure 10.1: Customer Support Information