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## ISUDAR SU6901

# ISUDAR SU6901 Slim Active Car Subwoofer Instruction Manual

Model: SU6901

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ISUDAR SU6901 Slim Active Car Subwoofer. Please read this manual thoroughly before using the product to ensure proper function and safety.



The ISUDAR SU6901 slim active car subwoofer, showcasing its compact design and included wired remote control for bass

level adjustment.

The ISUDAR SU6901 is a compact, active car subwoofer designed to deliver powerful bass in a space-saving form factor. It features a built-in amplifier and offers flexible connectivity options for various car audio systems.

## 2. PACKAGE CONTENTS

Verify that all items are present in the package:

- ISUDAR SU6901 Slim Active Car Subwoofer
- Wired Remote Control
- Power Wiring Harness
- High-Level Input Wiring Harness
- Mounting Brackets (4x)
- Mounting Screws
- User Manual (this document)



The ISUDAR SU6901 subwoofer is shown alongside its complete set of accessories, including wiring harnesses, mounting brackets, screws, and the wired remote control.

### 3. SETUP AND INSTALLATION

The ISUDAR SU6901 is designed for easy installation, often fitting under car seats due to its slim profile. Ensure the vehicle's battery is disconnected before beginning installation.

#### 3.1 Choosing an Installation Location

The compact dimensions of the subwoofer allow for flexible placement. Common locations include:

- Under a car seat (driver or passenger side)
- In the trunk
- Behind a rear seat

Choose a location that provides adequate ventilation and is protected from direct sunlight or excessive heat. Ensure the subwoofer is securely mounted to prevent movement during vehicle operation.



Demonstration of the ISUDAR SU6901 subwoofer's compact size, allowing for discreet installation under a car seat to save space.

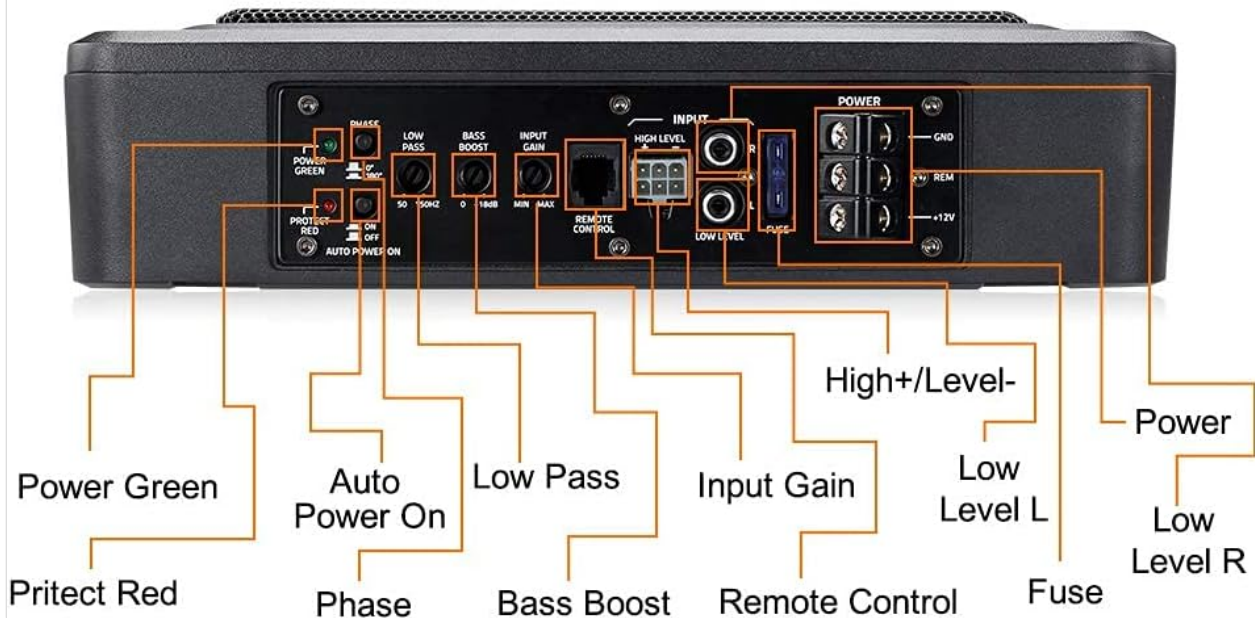
#### 3.2 Wiring Connections

The SU6901 supports both RCA (low-level) and high-level (speaker) inputs, allowing compatibility with both aftermarket and factory stereo systems.

1. **Power Connection:** Connect the main power wire (+12V) to the vehicle's battery (positive terminal) via an appropriate fuse (15A/20A recommended). Connect the ground wire (GND) to a clean, unpainted metal surface on the vehicle chassis.
2. **Remote Turn-On (REM):** Connect the remote turn-on wire to the remote output of your head unit. If your head unit does not have a remote output, the subwoofer features an "Auto Power On" function that detects audio signal.
3. **Audio Input:**
  - **RCA Input:** Connect RCA cables from your head unit's subwoofer or pre-amp outputs to the "LOW LEVEL INPUT" jacks on the subwoofer.
  - **High-Level Input:** If your head unit does not have RCA outputs, use the provided high-level input harness. Connect the speaker wires from your head unit's speaker outputs to the corresponding inputs on the high-level harness, then plug the harness into the "HIGH LEVEL INPUT" port on the subwoofer.
4. **Remote Control:** Plug the wired remote control into the "REMOTE CONTROL" port for convenient bass level adjustment.

# BUILT-IN POWER AMPLIFIER

## Support High and Low Level Input



An annotated diagram illustrating the various input and output connections on the subwoofer's control panel, including power, remote control, high-level input, low-level RCA input, phase, low pass filter, bass boost, and input gain.

## 4. OPERATING INSTRUCTIONS

Once installed, you can adjust the subwoofer's settings to optimize its performance with your vehicle's audio

system.

## 4.1 Control Panel Adjustments

The control panel on the subwoofer allows for fine-tuning of the audio output:

- **Input Gain:** Adjusts the input sensitivity to match the output level of your head unit. Start low and gradually increase until desired volume is achieved without distortion.
- **Low Pass Filter (LPF):** This variable filter allows you to set the upper frequency limit for the subwoofer, typically between 50Hz and 150Hz. This ensures the subwoofer only reproduces bass frequencies, preventing it from playing mid-range sounds.
- **Bass Boost:** Provides an adjustable bass enhancement, typically from 0 to +18dB, to increase the intensity of low frequencies. Use sparingly to avoid distortion.
- **Phase Control:** A switch (0°/180°) to adjust the phase of the subwoofer's output relative to the main speakers. Adjust this to achieve the most cohesive bass response.
- **Auto Power On:** If using high-level inputs and no remote turn-on wire, set this switch to "ON" for automatic power detection.



### High-strength protective alloy mesh

High-strength speaker protective cover for better protection of the woofer

### Frosted aluminum alloy body

Aluminum alloy body, effectively reducing noise caused by vibration



### Tunable

Low frequency pass, bass boost, input gain

This image highlights the high-strength protective alloy mesh, the frosted aluminum alloy body for vibration reduction, and the tunable low frequency pass, bass boost, and input gain controls.

## 4.2 Remote Control

The included wired remote control allows for convenient adjustment of the bass level from the driver's seat without needing to access the subwoofer directly.

## 5. MAINTENANCE

The ISUDAR SU6901 subwoofer requires minimal maintenance to ensure long-lasting performance.

- Keep the subwoofer clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Ensure proper ventilation around the unit to prevent overheating.
- Regularly check all wiring connections for tightness and corrosion.
- Avoid exposing the subwoofer to extreme temperatures or moisture.

## 6. TROUBLESHOOTING

If you experience issues with your ISUDAR SU6901 subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer	<ul style="list-style-type: none"><li>• No power</li><li>• Incorrect wiring</li><li>• Input gain too low</li><li>• Head unit settings</li></ul>	<ul style="list-style-type: none"><li>• Check power and ground connections, ensure fuse is intact.</li><li>• Verify all wiring connections (power, ground, remote, audio input).</li><li>• Increase input gain gradually.</li><li>• Check head unit's subwoofer output settings and volume.</li></ul>
Distorted sound	<ul style="list-style-type: none"><li>• Input gain too high</li><li>• Bass boost too high</li><li>• Incorrect LPF setting</li><li>• Poor quality audio source</li></ul>	<ul style="list-style-type: none"><li>• Reduce input gain.</li><li>• Lower bass boost level.</li><li>• Adjust LPF to prevent mid-range frequencies.</li><li>• Test with a different audio source.</li></ul>
Subwoofer turns off intermittently	<ul style="list-style-type: none"><li>• Overheating</li><li>• Loose connections</li><li>• Faulty remote turn-on signal</li></ul>	<ul style="list-style-type: none"><li>• Ensure adequate ventilation.</li><li>• Check all power and ground connections.</li><li>• Verify remote turn-on wire connection or use "Auto Power On" if applicable.</li></ul>

If the problem persists after trying these solutions, please contact ISUDAR customer support.

## 7. SPECIFICATIONS

Detailed technical specifications for the ISUDAR SU6901 Slim Active Car Subwoofer:

# DIMENSION



Model: SW6901

Type: Active Base Subwoofer

Speaker Size: 6\*9"

Max Power: 150W RMS

Bass Boost: 0+18dB

Fuse: 15A/20A

Frequency Range: 50Hz-150Hz

Net Weight: 7.2lb/3.25kg

A diagram showing the physical dimensions and a table of key specifications including model, type, speaker size, max power, bass boost, fuse, frequency range, and net weight.

Feature	Specification
Model Name	SU6901
Type	Active Base Subwoofer
Speaker Size	6 x 9 inches
Max Power Output	600 Watts (Peak)
RMS Power Output	150 Watts
Frequency Response	50Hz - 150Hz
Bass Boost	0 - +18dB
Fuse	15A / 20A

Feature	Specification
Connectivity Technology	RCA, High-Level Input
Audio Output Mode	Bass
Input Voltage	12 Volts DC
Mounting Type	Under-seat / Floor
Material	Aluminum
Dimensions (L x W x H)	28.96 x 22.1 x 7.37 cm (11.4 x 8.7 x 3.0 inches)
Net Weight	4 kg (7.2 lbs)
Product Model Number	AM50SU06901

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official ISUDAR website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact ISUDAR customer service through their official channels.