

Seventour ST-800

Seventour ST-800 10-inch 800W Slim Under Seat Powered Car Subwoofer Instruction Manual

Model: ST-800

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Seventour ST-800 10-inch 800W Slim Under Seat Powered Car Subwoofer. This unit is designed to enhance your vehicle's audio system by providing powerful bass in a compact form factor. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

- Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits and electrical shock.
- Ensure all wiring is properly routed and secured to prevent damage from sharp edges, moving parts, or excessive heat.
- Use appropriate gauge wiring as specified in the installation section to prevent overheating and potential fire hazards.
- Do not install the subwoofer in a location that obstructs the driver's view or interferes with the safe operation of the vehicle.
- Avoid exposing the unit to moisture or extreme temperatures.
- If you are unsure about any part of the installation process, seek assistance from a qualified professional car audio installer.

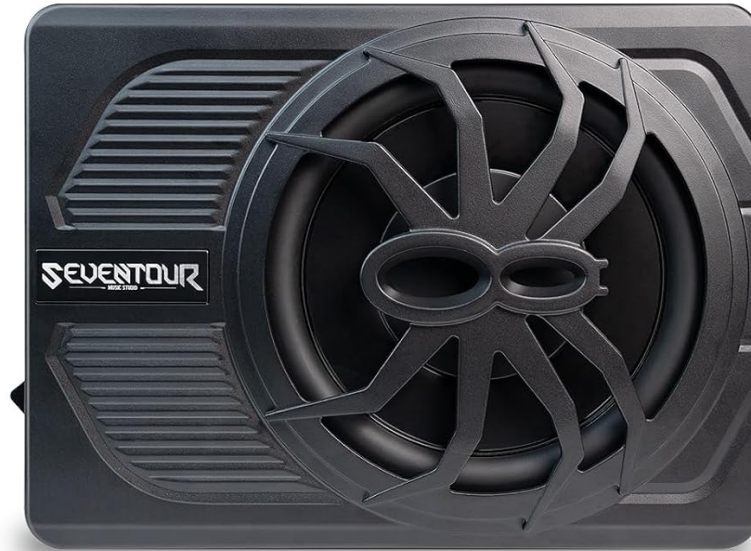
3. PACKAGE CONTENTS

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

- 10-inch subwoofer main unit
- High to Low Level Converter
- Power Cable
- RCA input/output cables
- Volume controller (wired bass remote)

- GND cable
- Connection Terminals and Mount Screws
- Mounting Velcro

What's in the box?



High to Low Level Converter



RCA audio cable



12V Power Cord + Fuse



REM cable



Bass Volume Controller



GND cable



Connection Terminals and Mount Screws



Mounting Velcro

Figure 3.1: Included components with the Seventour ST-800 subwoofer.

4. FEATURES

- **Integrated Amplifier:** Built-in amplifier for simplified installation and optimized performance.
- **Slim Design:** Compact dimensions (13.5"L x 10.2"W x 3.1"H) for flexible mounting options, including under seats.
- **High Power Output:** Peak power of 800 Watts and RMS power handling of 220 Watts for robust bass.
- **Dynamic LED Ambient Light:** Features a blue LED light ring that illuminates when the subwoofer is active.
- **Versatile Inputs:** Supports both low-level RCA inputs and high-level inputs for compatibility with various car stereo systems.
- **Wired Remote Control:** Includes a wired bass volume remote control for convenient adjustment of bass

levels.

- **Protection Circuitry:** Equipped with thermal, short circuit, and overload protection to ensure durability and safe operation.
- **Adjustable Controls:** Gain, bass boost (0-12dB @ 45Hz), and low pass filter (50Hz-150Hz) for sound customization.



Figure 4.1: The ST-800 subwoofer is rated for 800 Watts peak power handling.



Figure 4.2: The subwoofer features a blue LED ambient light that activates with the unit.

Compatible High/Low level inputs



Figure 4.3: The rear panel shows connections for both high-level and low-level inputs.



Slim Body ,Without Much Space



Under-Seat mount



Car trunk mount

Figure 4.4: The slim design allows for installation in confined spaces such as under seats or in the trunk.

5. INSTALLATION

5.1 Mounting Location

Choose a secure and discreet location for the subwoofer. Common locations include under a seat or in the trunk. Ensure the chosen location allows for adequate ventilation and does not interfere with vehicle operation or passenger safety. Use the provided mounting screws and Velcro to secure the unit firmly.

5.2 Wiring Connections

Follow the wiring diagram carefully. Incorrect wiring can damage the unit or your vehicle's electrical system.

1. **Power Connection (+12V):** Connect the power cable (red) to the positive terminal of your vehicle's battery. Install the included fuse holder as close to the battery as possible.
2. **Ground Connection (GND):** Connect the ground cable (black) to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection.

3. **Remote Turn-On (REM):** Connect the remote turn-on cable (blue) to the remote output of your car stereo. This will turn the subwoofer on and off with your stereo. If your stereo does not have a remote output, you can connect it to an accessory wire that turns on with the ignition.
4. **Audio Input:**
 - **Low-Level Input (RCA):** If your car stereo has RCA pre-outs, connect them to the "LOW LEVEL" RCA inputs on the subwoofer using the provided RCA cables.
 - **High-Level Input:** If your car stereo does not have RCA pre-outs, use the provided High to Low Level Converter. Connect your stereo's speaker outputs to the converter, then connect the converter's output to the "HIGH LEVEL" input on the subwoofer.
5. **Remote Bass Control:** Connect the wired volume controller to the "REMOTE CONTROL" port on the subwoofer. Mount the controller in an accessible location for easy adjustment.



Figure 5.1: Wiring diagram for the Seventour ST-800 subwoofer.

6. OPERATION

6.1 Initial Setup and Adjustments

After installation, reconnect the vehicle's battery. The subwoofer's blue LED ambient light will illuminate when the unit powers on. Use the controls on the subwoofer's side panel and the wired remote to fine-tune the sound.

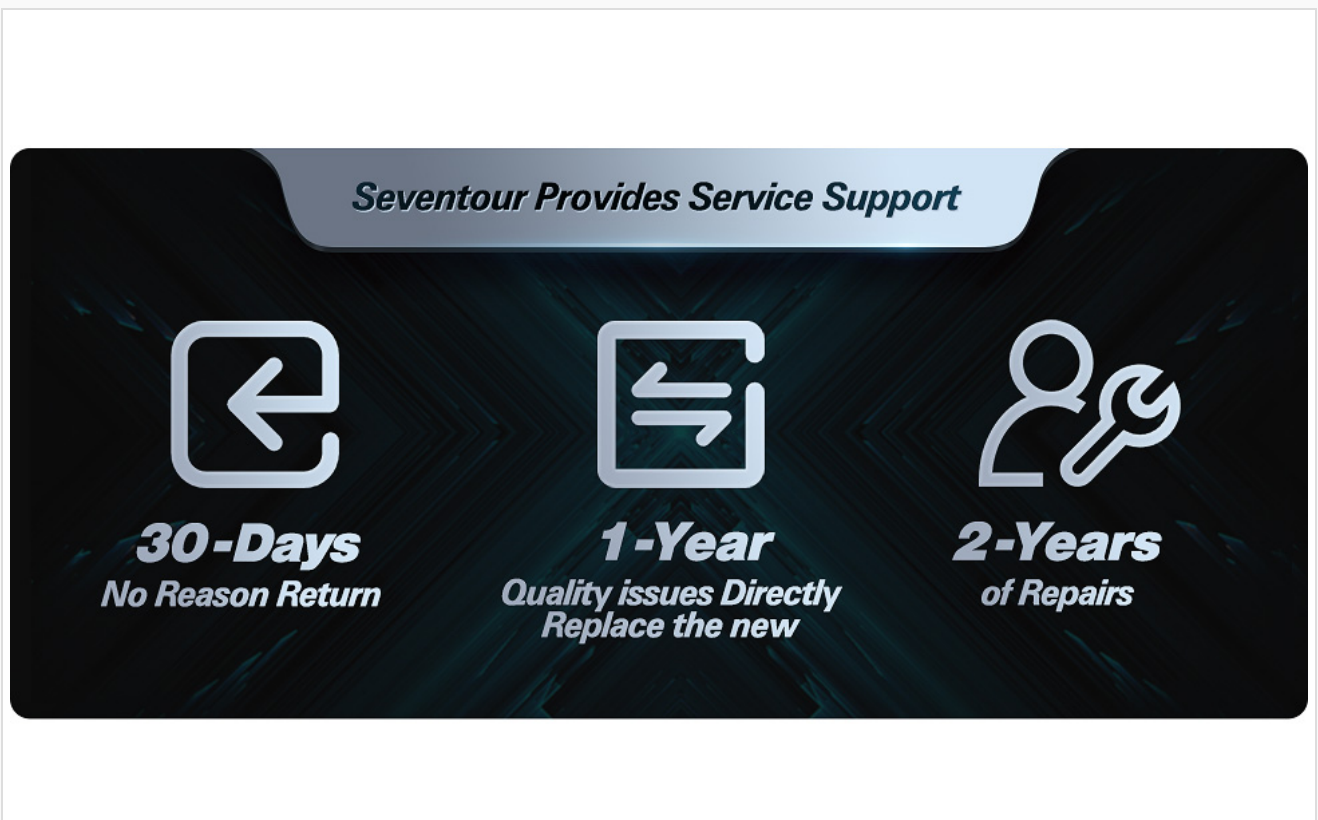


Figure 6.1: Subwoofer control panel with adjustment knobs.

- **GAIN:** Adjusts the input sensitivity. Start with the gain at minimum and slowly increase it until the desired volume is achieved without distortion.
- **LOW PASS FILTER (LPF):** Controls the upper frequency limit of the subwoofer. Adjust between 50Hz and 150Hz. A common setting is around 80-100Hz, but this can be adjusted to blend with your main speakers.
- **BASS BOOST:** Provides an adjustable bass enhancement at 45Hz, from 0 to 12dB. Use sparingly to avoid

distortion.

- **PHASE:** Switches the subwoofer's output phase between 0° and 180°. Adjust this to match the phase of your main speakers for optimal bass response. Listen to music and switch between 0° and 180° to find the setting that produces the strongest and most coherent bass.
- **REMOTE CONTROL:** The wired remote allows for convenient adjustment of the subwoofer's output level from the driver's seat.

6.2 LED Indicator

The subwoofer features a dual-color LED indicator:

- **Green LED:** Indicates normal operation (Power ON).
- **Red LED:** Indicates a protection mode (e.g., thermal overload, short circuit). If the red LED illuminates, turn off your audio system and investigate the cause.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power / No LED	Blown fuse, poor power/ground connection, no remote signal.	Check fuse, verify power and ground connections, ensure remote wire is connected and receiving +12V when stereo is on.
No Sound	Low gain setting, incorrect audio input connection, damaged RCA cables, stereo output issues.	Increase gain, check RCA or high-level input connections, test cables, ensure stereo is outputting audio.
Distorted Sound	Gain set too high, bass boost too high, incorrect LPF setting, poor quality audio source.	Reduce gain, lower bass boost, adjust LPF, use a higher quality audio source.
Subwoofer Overheats (Red LED)	Insufficient ventilation, prolonged high volume, impedance mismatch.	Ensure adequate airflow around the unit, reduce volume, check wiring for short circuits. Allow unit to cool down.
Weak Bass	Phase mismatch, low gain, incorrect LPF, poor mounting.	Adjust phase switch, increase gain, adjust LPF, ensure subwoofer is securely mounted.

8. SPECIFICATIONS

Feature	Specification
Model Name	ST-800
Speaker Type	Subwoofer
Mounting Type	Under Seat Mount
Material	Aluminum
Speaker Size	10 Inches
Subwoofer Diameter	10.2 Inches

Feature	Specification
Speaker Maximum Output Power	800 Watts (Peak)
RMS Power Handling	220 Watts
Impedance	4 Ohms
Frequency Response	20Hz - 500Hz
Low Pass Filter	50Hz - 150Hz
Bass Boost	0 - 12dB @ 45Hz
Signal to Noise Ratio	>90dB
Total Harmonic Distortion (THD)	< 0.4%
Rated Fuse	25A
Low Level Input Sensitivity	300mV
High Level Input Sensitivity	0.9V
Product Dimensions (L x W x H)	13.5" x 10.2" x 3.1"
Item Weight	10.65 pounds (4.84 kg)
Connectivity Technology	Wired (Auxiliary, RCA)
Vehicle Service Type	Bus, Car, Truck

9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the subwoofer. Do not use harsh chemicals or abrasive cleaners.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion.
- **Ventilation:** Ensure that the subwoofer's ventilation areas are not blocked by debris or other objects to prevent overheating.

10. WARRANTY AND SUPPORT

Seventour provides comprehensive customer service support for this product:

- **30-Day Return Policy:** You may return the product within 30 days of purchase for any reason.
- **1-Year Replacement:** For any product quality issues within 1 year of purchase, Seventour promises to replace the product with a new one.
- **2-Year Repair:** The product is eligible for repair within 2 years of purchase.

For professional after-sales support, please contact Seventour directly. We aim to reply to every customer's email within 12 hours.

ES-12C

- ✓ Car Subwoofer
- ✓ Remote Control
- ✓ Colorful Lights
- ✓ Mounting Wire Kit



Figure 10.1: Seventour Service Support overview.