



# STETSOM TREMOR Digital Audio Processor User Manual

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**STETSOM TREMOR Digital Audio Processor**



## Introduction

Thank you very much for choosing a STETSOM product!

The TREMOR has been designed to enhance your audio experience by boosting low frequencies, delivering more powerful and defined bass for automotive sound enthusiasts.

## Featurings

The digital audio processor has 2 inputs and 1 output:

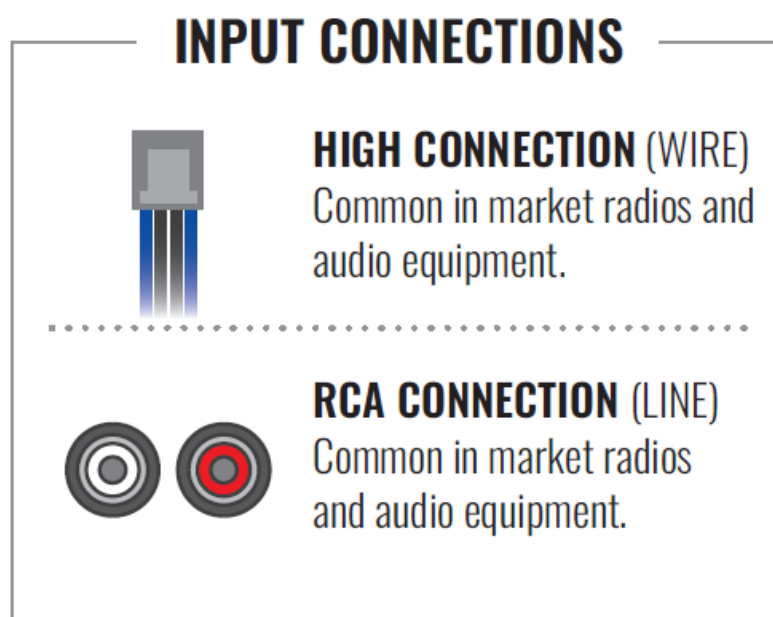
### INPUT

MAIN IN: RCA Connection (L + R)

HIGH-IN: WIRE Connection (L + R)

### OUTPUTS

OUT 1: RCA (L + R)



**The processor offers controls for precise bass adjustments:**

- **WIDE/SWEEP Controls:** Allows manual adjustment of enhanced frequencies.
- **BASS MAXIMIZER:** Dedicated processing for bass enhancement.

- **TREMOR CONTROL:** External control for easy operation of the product.
- **LED LIGHTING:** The product has LED lighting in its logo that synchronizes with the music's rhythm.

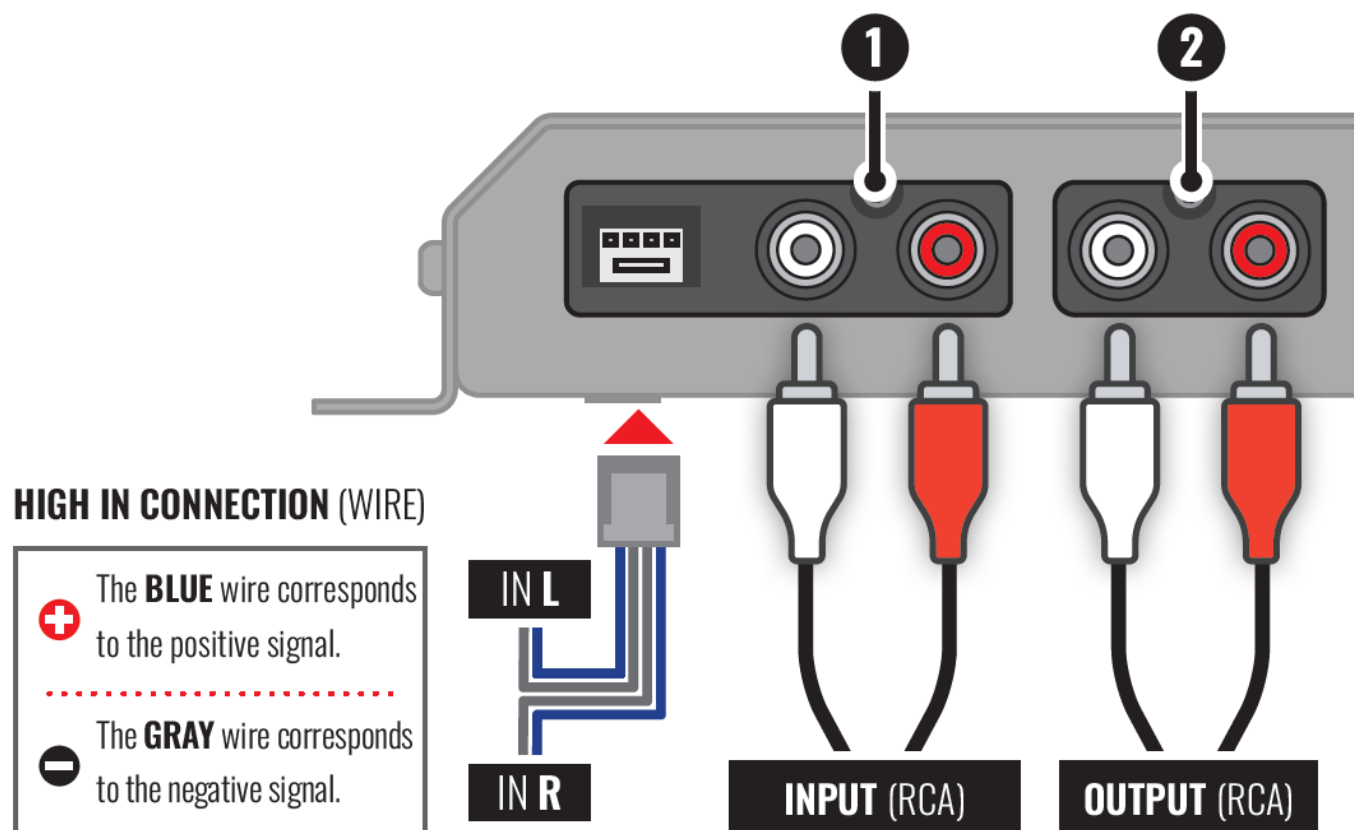
## Pre-installation guidelines

Please read this manual carefully before using the product.

- All connections must be made with the product turned OFF.
- It is mandatory to install a fuse between the product and the battery for protection in case of overload. The fuse must be compatible with the product's power consumption and installed as close to the battery as possible.
- Use the recommended wire gauges specified in this manual to prevent overheating and to ensure maximum performance.
- Keep the cables as short as possible to enhance sound quality and avoid potential power loss.
- Distribute the installation cables as far away as possible from the vehicle's original wiring to prevent interference and noise in your audio system.
- Install the product in a stable, well-ventilated, and dry location.
- A qualified professional should perform the installation.

If you have any questions, consult the store where the installation was performed or contact our Customer Service: : +55 18 2104 9412.

## Processor's audio Connections



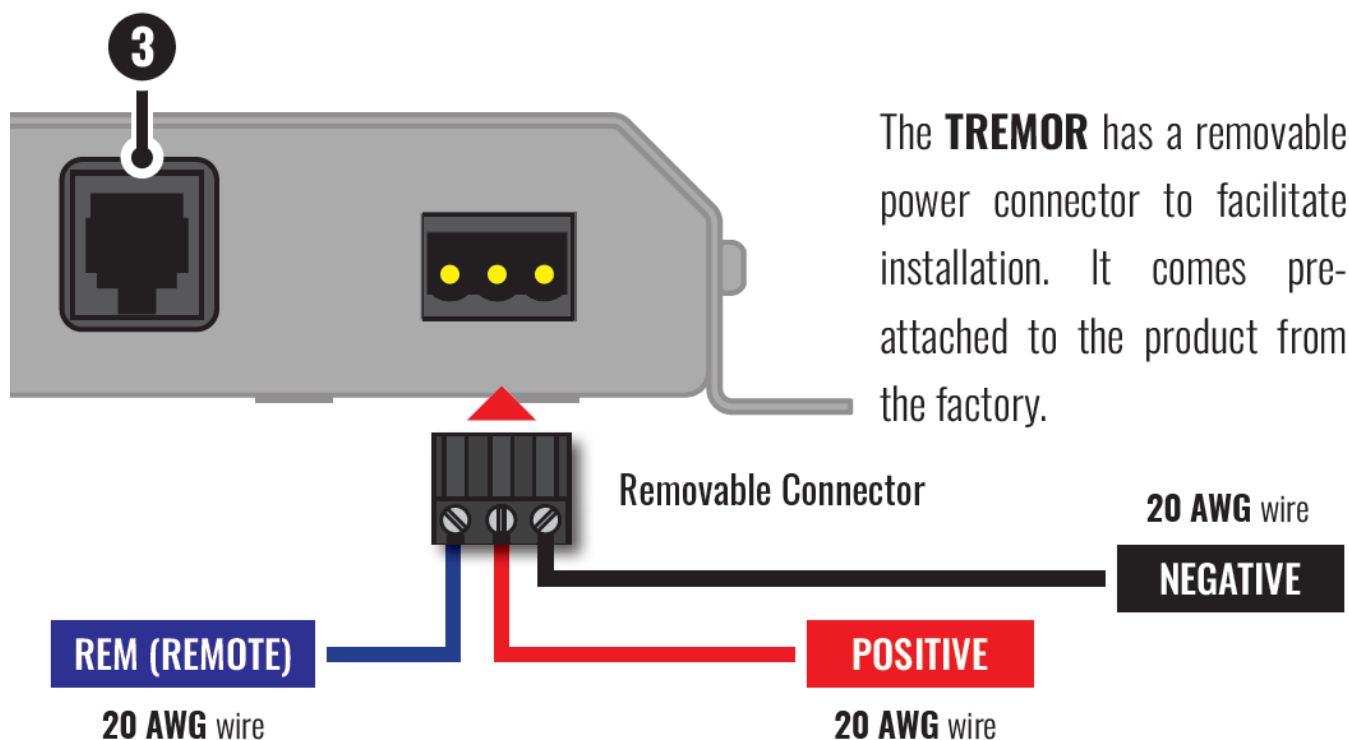
**INPUT (RCA):** RCA connection, common in audio devices. This connection is a STEREO input (L+R), marked on the product. Connect it to the radio/player using high-quality shielded RCA cables to avoid unwanted noise.

**HIGH IN (WIRE):** Wire connection, typically used with factory-installed radios/players that do not have dedicated RCA outputs. This input is also a STEREO input (L+R), marked on the product.

The RCA and HIGH IN input connections share the same output channels. Using both inputs simultaneously may cause unwanted audio noise.

**OUTPUT CONNECTION:** RCA output (L+R) with processed audio.

## Power and control connections



**POSITIVE CONNECTOR:** Connect to the positive terminal of the battery using a wire with a minimum gauge of 20 AWG. If using the vehicle's battery, install a 1A fuse (placed no more than 12 inches from the battery) to protect the electrical system.

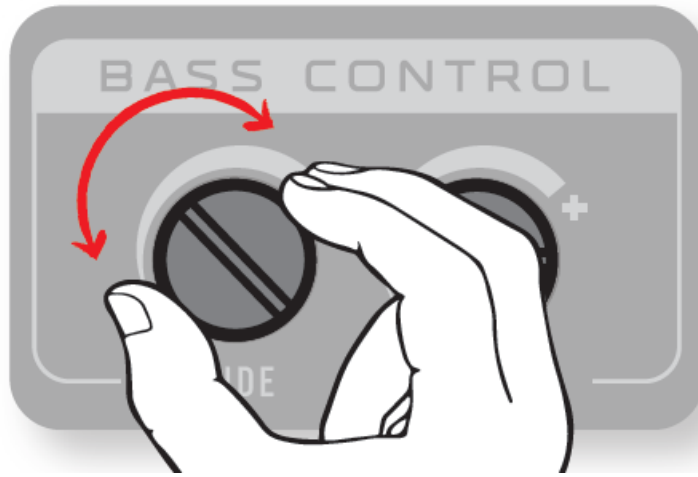
**NEGATIVE/GROUND CONNECTOR:** Connect to the negative terminal of the battery using a wire with a minimum gauge of 20 AWG.

**REM REMOTE CONTROL CONNECTION (REM):** This connection automatically activates the product when powered. Connect it to the remote output of the radio/player using a wire with a minimum gauge of 20 AWG. For manual activation, use an on/off switch connected to a 12V power source.

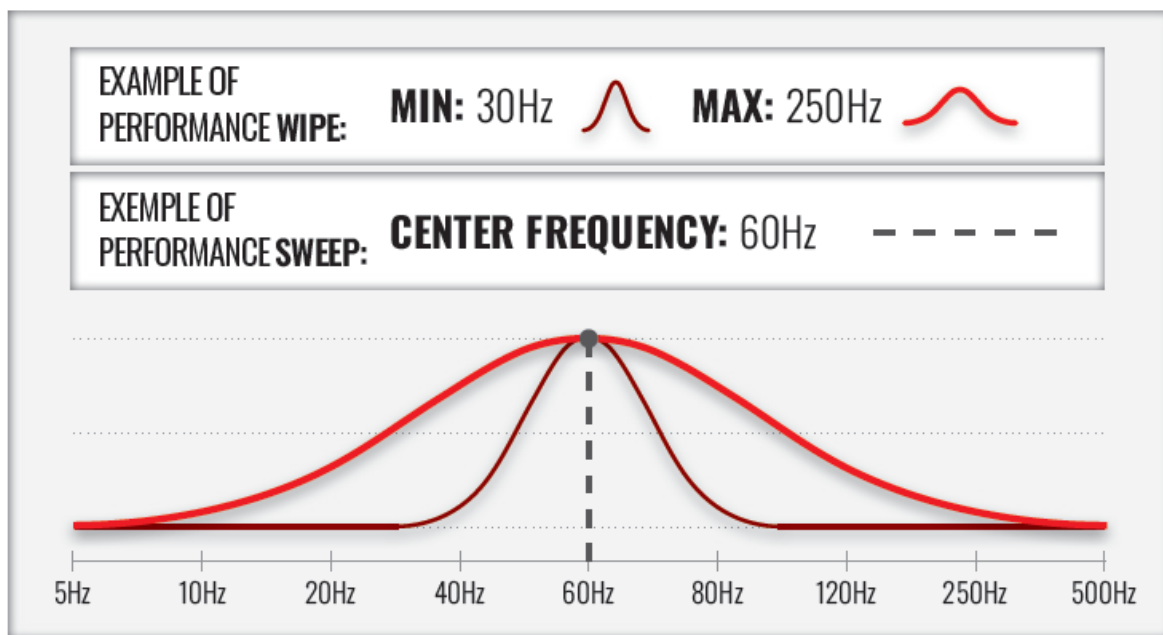
**CONTROL CONNECTION:** This connection is dedicated to the use of the external TREMOR CONTROL. Install it on the vehicle's dashboard or in an easily accessible location, using the 16-foot RJ11 cable provided with the product.

## Audio adjustment controls

The processor has dedicated controls for fine-tuning of frequencies:



- **WIDE:** Adjusts the range of frequency processing. The frequency range can be adjusted from 30Hz to 250Hz.
- **SWEEP:** Selects the center of the frequency range for processing. The selected frequency will be emphasized, with less impact on nearby frequencies, as configured by the WIDE adjustment. The frequency can be adjusted from 27Hz to 63Hz.

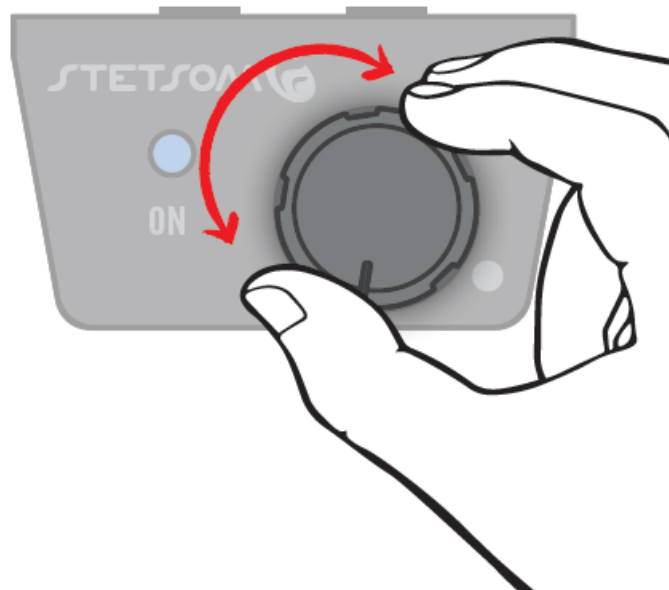


Graph with Simplified Scale for Demonstrating Control Operation.

### USING THE TREMOR CONTROL

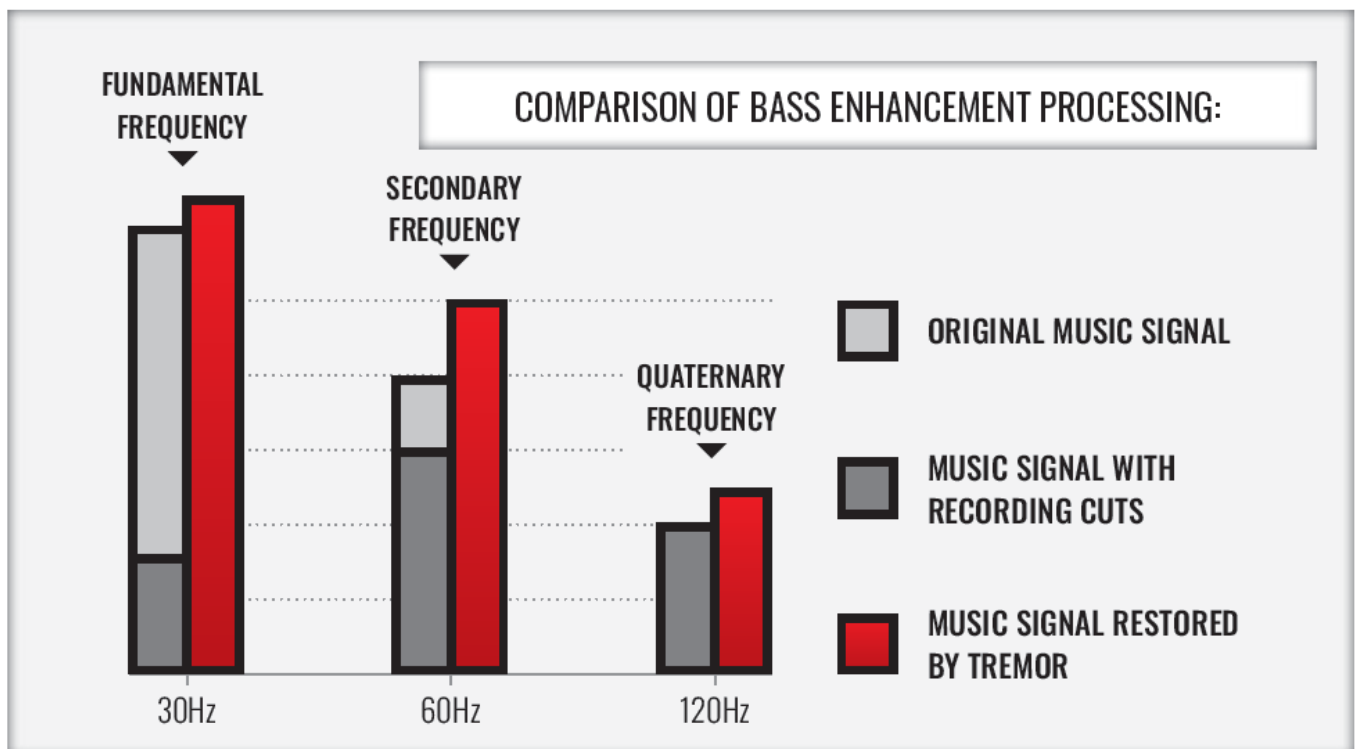
The processor comes with an external control that allows for quick signal level adjustments. The control features tabs for mounting and an LED indicator that lights up when connected and the processor is ON.

## TREMOR CONTROL



### TREMOR operation

The TREMOR's audio processing enhances low frequencies that may have been filtered or reduced during recording, mixing, or for users who wish to add more bass to their music.



The bass enhancement process uses advanced audio processing technology to analyze higher frequencies in the music and convert them into lower frequencies. These new frequencies are then integrated into the original music, adding depth and presence to the original bass.

### Configuration modes

The processor has various operating modes, set by JUMPERS.

- ANY CHANGES BETWEEN CONFIGURATION MODES SHOULD BE MADE ONLY WITH THE PRODUCT

TURNED OFF.

- CHANGING SETTINGS IS RECOMMENDED ONLY IF YOU NOTICE AUDIO NOISE ISSUES.

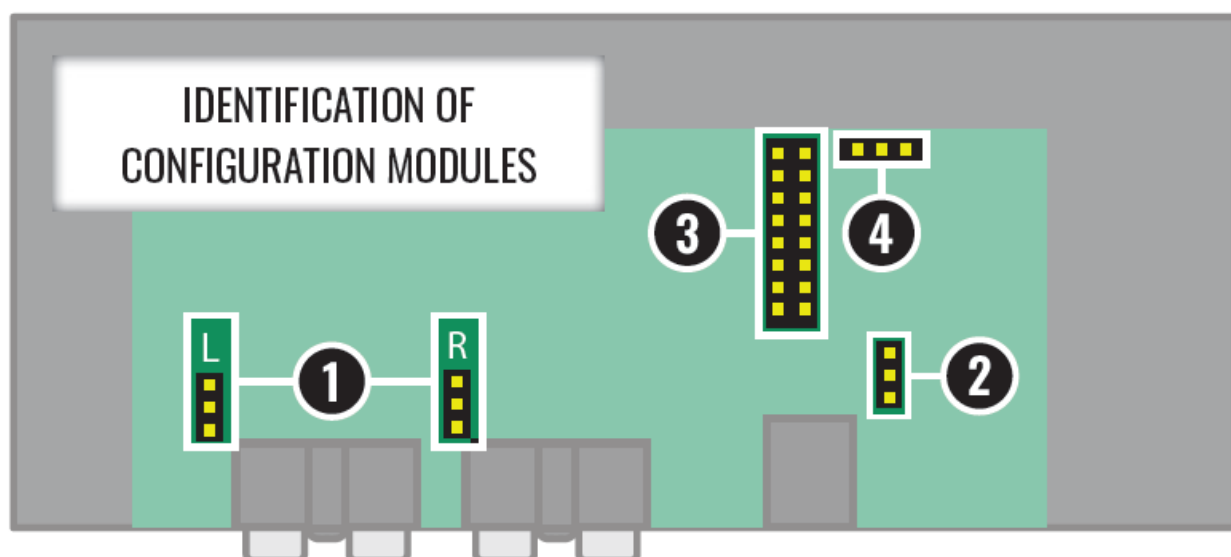
### ACCESSING CONFIGURATION MODES

To access the modes, remove the screws located on the sides of the processor (two screws on each side) using a TORX T10 screwdriver.



### Adjusting Settings with JUMPERS

After removing the top cover of the processor, locate the configuration modules. Each module contains a JUMPER that acts as a selector switch for the different modes. Changing the position of the JUMPERS will modify the processor settings, as described in the following pages.



## 1 RCA INPUT CONFIGURATION:

### GROUNDING



Grounds the RCA input directly to the system's ground.

### RESISTIVE (DEFAULT MODE)



Grounds the RCA input through a 1KOhm resistor, helping to maintain signal integrity.

### ELEVATED



Keeps the RCA input isolated from the ground, ensuring more balanced and cleaner electrical performance.

## 2 GROUNDING:

### GROUNDING



Grounds the product directly to the vehicle's battery.

### RESISTIVE (DEFAULT MODE)



Grounds the product through a 1KOhm resistor, helping to maintain signal integrity.

### ISOLATED

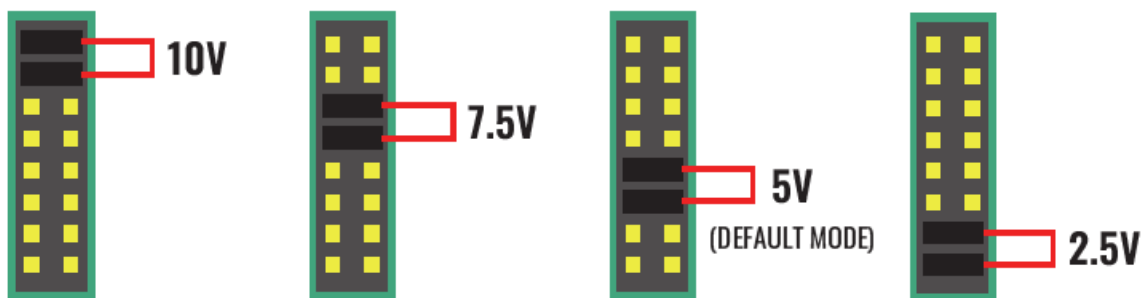


Isolates the product's ground, providing electrical isolation to improve signal integrity and prevent interference issues.



### 3 MAXIMUM BASS VOLTAGE LEVEL:

Set the maximum voltage level for the restored bass gain. The higher the voltage, the more intense the bass.



### 4 LED: Changes the lighting mode of the TREMOR logo.

**PULSING**  
(DEFAULT MODE)



The LED pulses in sync with the music.

**ALWAYS ON**



The LED remains continuously lit.

**OFF**



Removing the jumper turns the LED off.

#### FACTORY DEFAULT SETTINGS:

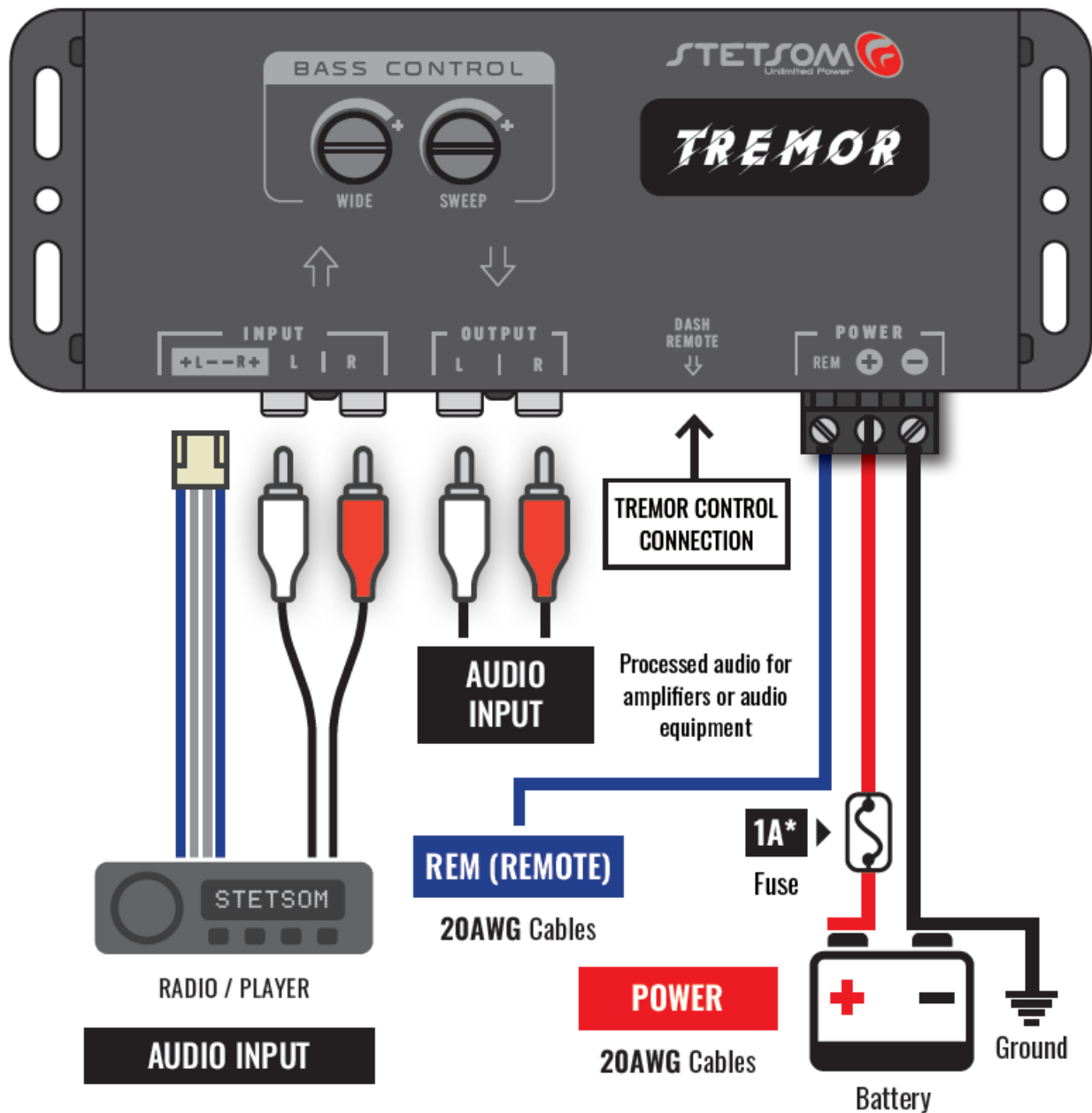
- RCA INPUT: RESISTIVE
- GROUNDING: RESISTIVE
- VOLTAGE LEVEL: 5V
- LED: PULSING

#### Installation diagram

Use the following sizing requirements for the installation:

- Power cables (Positive and Negative) ..... 20 AWG
- Remote trigger cable (REM) ..... 20 AWG
- Protection fuse ..... 1A

Installation must be performed only by qualified professionals and with the product turned OFF.  
The use of a fuse is mandatory to protect the system from short circuits and overloads.  
Install the fuse no more than 12 inches from the battery.



## Troubleshooting

If the product is not functioning correctly or showing unusual behavior, these tips may help diagnose and resolve the issue:

### PRODUCT DOES NOT TURN ON:

- Check if the cables are connected properly and ensure all connections have electrical and mechanical contact.
- The fuses may be defective or blown. Check the condition of the fuses and ensure they match the recommended rating for the equipment.
- Verify that the battery connections are powered and that the charge is sufficient for the product's operation.

### NO SOUND:

- Speaker cables or audio connections may not be connected properly or could be defective.
- Check the radio to ensure the volume LEVEL is not set to minimum or the MUTE option is not activated.

**AUDIO DISTORTION:**

Speakers may be overloaded or defective. Check if the equalization settings are appropriate.

**NOISE OR AUDIO FAULTS:**

- Ensure the installation is not close to the vehicle's original wiring, as this can cause interference and noise in the audio signal.
- Use a separate power connection for the sound system. Always use a fuse as close as possible to the battery for protection.

**Technical specifications**

## TREMOR PROCESSOR

Audio Inputs:	<b>RCA (L+R) &amp; HIGH IN (L+R)</b>
Audio Outputs:	<b>RCA (L+R)</b>
Controls:	<b>WIDE: 30Hz ~ 250Hz / SWEEP: 27Hz ~ 63Hz</b>
Frequency Response:	<b>5Hz ~ 55Khz</b>
Power Supply:	<b>9V ~ 15V DC</b>
Output HPF Filter:	<b>35Hz (Fixo)</b>
Input Sensitivity @ 12.6V:	<b>RCA IN: 5,5V (Bass Restoration 5V max.) HIGH IN (FIO): 37.5V (Bass Restoration 5V max.)</b>
Maximum Current Consumption:	<b>260mA @ 12,6V</b>
Input Impedance:	<b>RCA IN: 10K Ohms / HIGH IN: 1K Ohms</b>
Output Impedance:	<b>150 Ohms</b>
Lighting Mode:	<b>PULSING / ALWAYS ON / OFF</b>
Maximum Gain Voltage:	<b>2.5V / 5V / 7.5V / 10V</b>
Signal-to-Noise Ratio:	<b>&gt;90dB</b>
Total Harmonic Distortion:	<b>&lt; 1%</b>
Dimensions (H x W x D):	<b>1.28" x 2.93" x 8.09"</b>
Weight:	<b>0.99 lb</b>

## TREMOR CONTROL

Controls:	<b>ADJUSTABLE LEVEL</b>
Lighting Mode:	<b>LED ON</b>
Dimensions (H x W x D):	<b>2.20" x 1.77" x 1.18"</b>
Weight:	<b>0.15 lb</b>

Any updates made to this manual will be available for consumers to view for free on the brand's website. It is recommended to consult the updated manual whenever necessary.

### Warranty terms

STETSOM, through its network of Authorized Service Centers, guarantees the buyer of its products free Technical Assistance services, including the replacement of components or parts, as well as the necessary labor for repairs of any defects duly identified as manufacturing defects. Repairs will be carried out by the Authorized Service Center specifically designated by STETSOM

FOR A LIST OF AUTHORIZED SERVICE CENTERS, VISIT: [www.stetsom.com.br/pt/assistencias-tecnica](http://www.stetsom.com.br/pt/assistencias-tecnica)  
If you cannot find a service center in your city, please contact us: Customer Service: BR +55 18 2104 – 9412

#### WARRANTY PERIOD CONDITIONS:

Our warranty covers a total period of 1 (one) year against manufacturing defects. The warranty period starts from the date of sale to the end consumer. To benefit from this warranty, it is necessary to present one of the following documents: the final consumer's sales receipt or the warranty certificate, properly completed.

#### CASES WHERE WARRANTY IS VOID:

1. After 1 year from the date of the sales invoice to the consumer, 1 year from the fill out of the warranty certificate (dated and stamped by the retailer or installer).
2. Violation of warranty seals, alteration, or removal of the product's serial or lot number.
3. If the product is misused, or damaged by accidents such as water, fire, or falls, or if it is installed under conditions contrary to the instructions in the installation manual that accompanies the product.
4. Damage or alterations to the circuit or adaptation of non-original parts.
5. Installation that does not follow the technical specifications outlined in the manual.

#### QUESTIONS AND GUIDANCE:


STETSOM provides a customer service (SAC) to clarify any questions and offer guidance regarding products and services. Contact us through the following channels:

Phone: BR +55 18 2104-9412

E-mail: [suporte@stetsom.com.br](mailto:suporte@stetsom.com.br)

Website: [www.stetsom.com.br](http://www.stetsom.com.br)

#### Documents / Resources

	<p><a href="#">STETSOM TREMOR Digital Audio Processor</a> [pdf] User Manual TREMOR Digital Audio Processor, TREMOR, Digital Audio Processor, Audio Processor, Processor</p>
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#### References

- [Stetsom - Stetsom](#)
- [Stetsom - Stetsom](#)
- [Assistências TécnicaTechnical AssistanceAsistencias Técnica - Stetsom](#)
- [User Manual](#)

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