

2007-2021 Tundra Powered Subwoofer Aftermarket Head Unit Tuning Instructions



Before attempting to play your powered subwoofer please adhere to the following instructions. Failure to do so can result in damaged equipment and potentially void the warranty of this product.

Please follow the instructions below carefully.

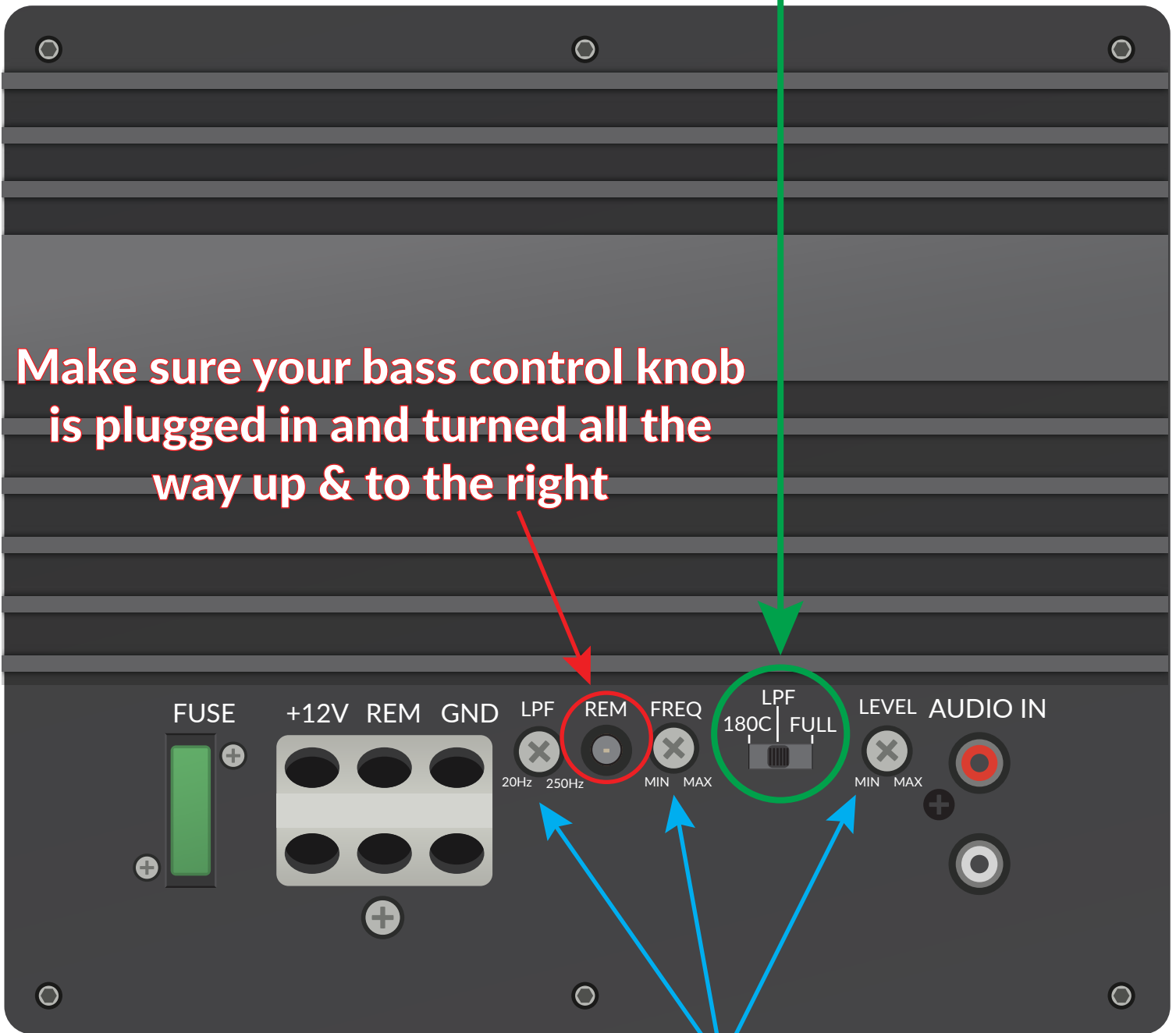
Do NOT turn on your vehicle until the instructions explicitly state to do so.

Ignoring this warning could cause permanent damage to your subwoofer and/or the built-in amplifier and WILL void the warranty.

PRE-TUNE SET UP

Set filter switch to center/LPF setting

Make sure your bass control knob is plugged in and turned all the way up & to the right

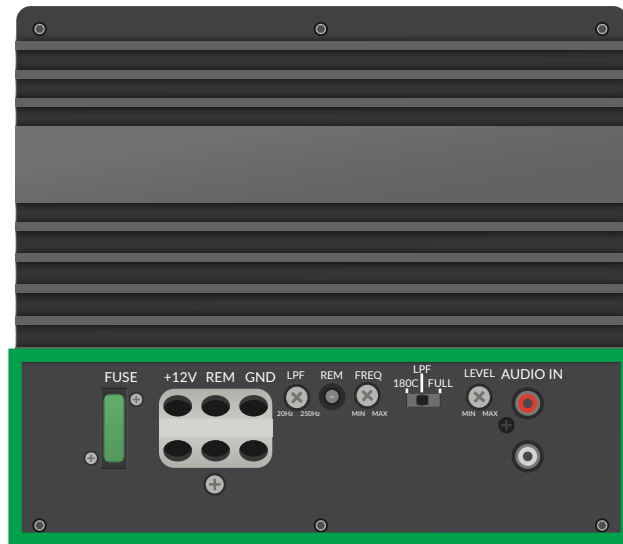


Make sure all tuning knobs are turned all the way down/to the left

2007-2021 Toyota Tundra Aftermarket Head Unit Tuning Instructions:

Adjust the amplifier's buttons and knobs according to the diagram below. Once all connections and adjustments are made please install the enclosure behind your rear seat prior to turning on your vehicle.

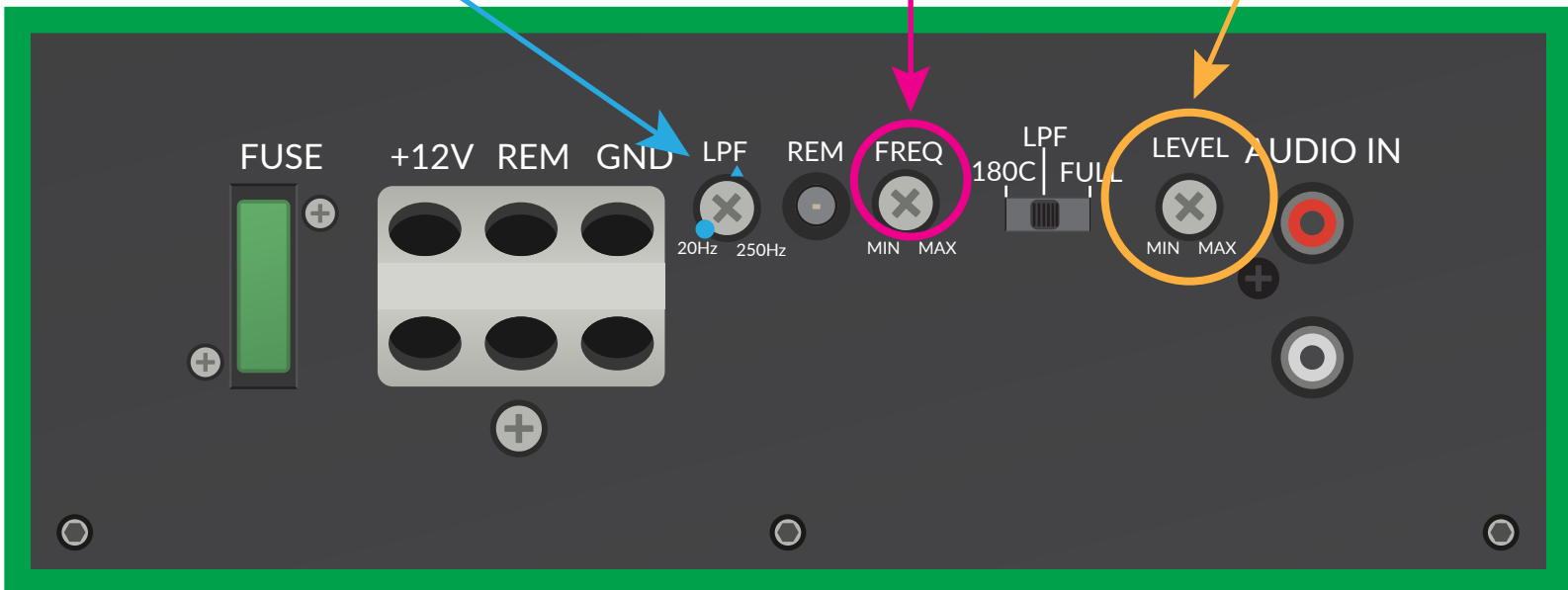
All of these steps must be completed **BEFORE** turning on your vehicle and providing power to the amplifier.



Adjust the "LEVEL" Knob according to the instructions on the following pages of this document

Do not change - Leave all the way down/to the left

Turn the LPF knob to the right until the "●" marked point sits at the "F"



Please read the entirety of this document for instructions on how to properly set your amplifier's "LEVEL" knob and Head Unit Settings.



**At this point of the installation
the following steps should be
completed:**



- Subwoofer/Bass Control knob turned all the way up and to the right**
- Amplifier Knob Adjustments**
- All wiring harness connections**
- Power & Ground Connections**
- Enclosure is in place**

**You may now power on
your vehicle and proceed
with the following
tuning steps!**

"LEVEL" & HEAD UNIT TUNING INSTRUCTIONS



PLEASE READ THE FOLLOWING PAGES CAREFULLY.



FAILURE TO ADHERE TO THE FOLLOWING GUIDELINES RESULTING IN DAMAGE TO YOUR SUBWOOFER AND/OR AMPLIFIER WILL VOID THE 1 YEAR LIMITED WARRANTY.

Set Your Head Unit's "New Max Volume"

Aftermarket head unit volumes vary greatly (some max out at 35, others at 40, etc.). Extensive testing shows that most units start creating a distorted or "clipped" signal once the volume gets too high.

To ensure the cleanest signal for your amplifier, we generally recommend setting a "New Max Volume" that is no more than 80% of the head unit's actual maximum.

Before You Tune:

1. Find the absolute maximum volume on your head unit.
2. Turn the volume down by 20% from that maximum. This is your New Max Volume.
3. Proceed with the rest of the tuning process using this New Max Volume.

Note: The volume and signal quality can change depending on the source (e.g., Bluetooth, Sirius XM, FM Radio). We recommend setting your New Max Volume using your most common listening source.

“LEVEL” Knob (Sensitivity/Gain)

Setting the gain (often labeled as sensitivity) on your amplifier requires careful tuning, as the ideal setting depends on your head unit's (stereo's) output signal. Most aftermarket head units send an audio signal that falls within a range of 1.0 to 4.0 volts. Some high-performance units can output even higher voltages.

How to Adjust:

- 1. Start Low:** Initially, set the gain according to our general recommendations.
- 2. Increase with Caution:** If your subwoofer is producing very low volume, you may need to slowly increase the amplifier's sensitivity knob.
- 3. The Overdrive Warning:** You must proceed with extreme caution when raising the gain past the recommended level. Turning the sensitivity knob too high can cause the amplifier to send a clipped (distorted) signal. This is known as overdriving the subwoofer, and it can quickly lead to overheating and permanent damage to the subwoofer and the amplifier.

The goal is to match the amplifier's sensitivity to the head unit's maximum clean (undistorted) output.

Critical Overdrive Warning Signs

It is crucial to understand that audible distortion (clipping) can be very subtle and often difficult to identify by ear alone, especially in the low-frequency range. A far more critical indicator that you are overdriving your subwoofer is the presence of unusual odors.

Critical Warning Signs:

- **Detection of Odor:** If you detect a distinct smell, often described as burning plastic, burnt sugar, or a general hot/acrid scent, this is a severe indication of overheating.
- **Root Cause:** This odor means that the voice coil of your subwoofer is being subjected to excessive electrical power and is rapidly overheating—a direct result of running a highly clipped signal from the amplifier.

Immediate Action Required: If this odor is present, immediately reduce the amplifier's gain/sensitivity setting. Continuing to operate the system under these conditions will result in the permanent thermal failure of the subwoofer's voice coil.

NOTE: *If you're using a direct replacement, plug-and-play head unit and are getting very low or no bass output from your subwoofer, follow these steps:*

Check Head Unit Settings: *Ensure the subwoofer output option is enabled in your head unit's menu. This setting is often off by default.*

Contact Us for Testing: *If the issue persists, let us know. We can guide you through using a digital multimeter to test the head unit's output and confirm it's sending a proper subwoofer signal.*

Addressing Low Output from Plug-and-Play Head Units

We have noted instances where customers utilizing direct replacement plug-and-play head units experience significantly low signal output, resulting in minimal or absent bass production from the subwoofer.

If you are encountering this specific issue, please contact us for advanced troubleshooting. We will provide instructions on how to accurately test the output voltage of your head unit.

Required Diagnostic Tool:

- This procedure necessitates the use of a Digital Multimeter (DMM) to ensure your head unit is delivering adequate output voltage .

Essential Head Unit Configuration Check:

Furthermore, verify that the subwoofer output option is correctly enabled within your head unit's settings menu. A number of models default to having the subwoofer output disabled, and this setting must be manually activated for proper system function.

The following pages will cover common head unit setting and how to adjust them accordingly.

FAILURE TO ADHERE TO THE FOLLOWING GUIDLINES RESULTING IN DAMAGE TO YOUR SUBWOOFER AND/OR AMPLIFIER WILL VOID THE 1 YEAR LIMITED WARRANTY.

Head Unit Volume & Settings

Aftermarket head units offer a variety sound tuning and equalizer settings that factory units do not. Names and locations of these settings will differ by head unit.

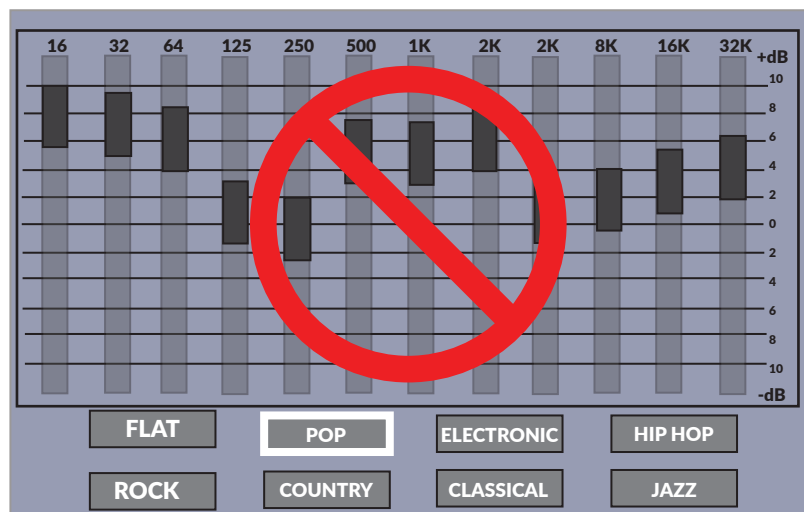
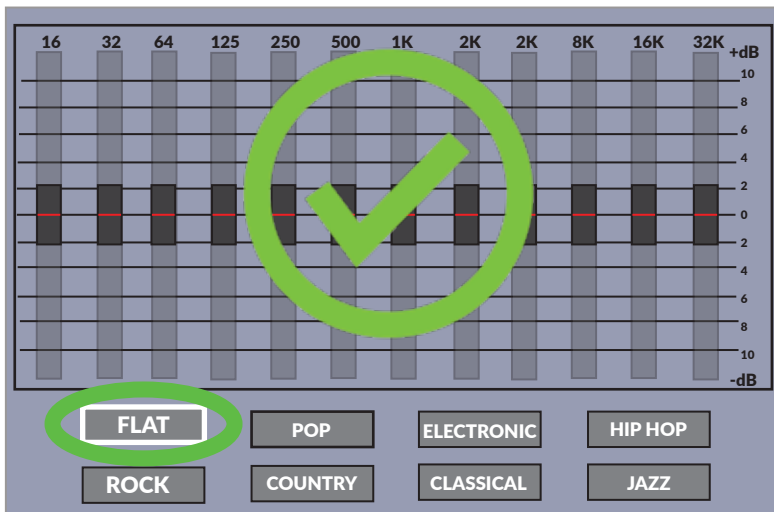
Consult the list below for our recommended adjustments to the most common settings.

WARNING

If your unit has any non-standard or "extra" settings that are not listed below, do not play your subwoofer until you have consulted with our support team. Adjusting these settings contrary to our recommendation risks damage to the built-in amplifier and/or subwoofer and will nullify your 1-year limited warranty.

Graphic EQ/ Equalizer:

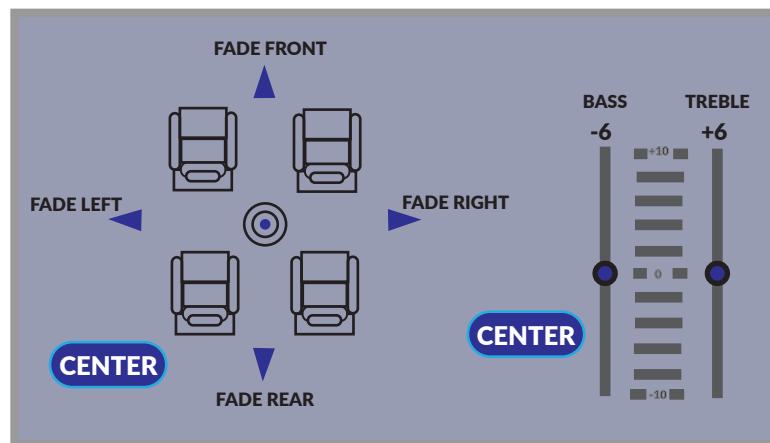
Make sure **this setting is on "FLAT"**. Any other setting can damage your subwoofer and void its warranty.



Fader/Balance/Bass/Treble:

Keep these settings **flat/centered at all times.**

Example:



SUBWOOFER

- Ensure your subwoofer is set “on” within your head unit.
- Ensure your subwoofer phase is set to “0 ” within your head unit (if applicable)
- The “Subwoofer volume” (subwoofer output from your headunit) may have a separate setting. *Some head units require this setting to be turned down.*

CROSSOVER (X-OVER):

Make sure all crossover/x-over settings are set to “0” or “off”.

NOTE: The LPF crossover **MUST** be set at the amplifier, **NOT** within the head unit.

SOURCE TUNING PRE-SETS

Ensure there is not an option for each listening source (*radio, bluetooth, apple carplay, ect*) to have separate pre-saved tuning settings.

If that option is available, ensure all “tuning pre-sets” are set to flat.

TIME CORRECTION

Ensure any “time correction” settings are set “flat”, “centered” or “off”.

REAR SPEAKER SETTINGS

Ensure any rear speaker settings or set to “off”, “0” or “centered”.

This concludes our list of “COMMON” after market head unit settings.

If your head unit offers any settings that you are unsure on how to adjust please consult with our team before turning the volume up on your head unit.

A festive graphic featuring a large amount of multi-colored confetti (red, blue, yellow, green, purple) and streamers scattered across the page. A portion of a confetti cannon is visible on the right side, with streamers trailing off to the right.

The tuning process is now complete!

**Turn up the music and enjoy
the upgraded bass!**

If you have any questions or concerns please feel free to
reach out to our team here:

[Tacotunes Support Page](#)

or

text/call us at [210-472-0000](tel:210-472-0000) and we will get back with
you as soon as possible.