



STEG Digital Signal Processor Owner's Manual

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STEC Digital Signal Processor



PRODUCT BRIEF INTRODUCTION

PRODUCT DESCRIPTION-PRECAUTIONARY NOTES

The DSP is a digital signal processor essential to maximize the acoustic performance of your car audio system. It consists of a 32-bit DSP processor and 24-bit AD and DA converters.

It can connect to any factory system, even in vehicles featuring an integrated audio processor, since, thanks to the De-equalization function, the DSP will send back a linear signal. It features selectable High and low level inputs as well as 3.5MM Aux and digital inputs that feed 8 completely variable output channels. Each output channel has a 31-band equalizer available. It also features a 66-frequency electronic crossover as well as BUTTERWORTH or LINKWITZ filters with 6-24dB slopes and a digital time delay line. The user can select adjustments. That allow him or her to interact with the DSP through a remote control device called DRC.

WARNING: 1-a PC provided with Windows XP, Windows Vista or Windows 7 operating system, 1.5GHz minimum. Processor speed, 1 GB RAM minimum memory and a graphics card with a minimum resolution. Of 1024×600 pixels are required to install the software and setup the DSP. 2-Before connecting your DSP, carefully read this manual. Improper connections may cause damage to the DSP or to the speakers in the car audio system.

PACKAGING CONTENTS

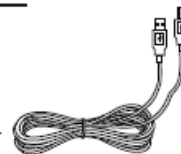
- DSP- Signal Interface Processor _____



- Power supply cable Inputs/speaker output _____



- 5.0m USB cable _____



- Control High Level /wifi Input _____



- 4 of 4.0*15 mm/8of 3.0*6mm self-tapping,
Cross-head fixing screws,4 fixing brackets.



- CD ROM with:
DSP 1.0 software
This advanced manual(.pdf format)
Test tracks

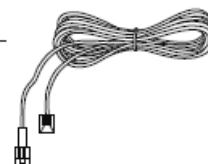


OPTIONAL:

- DRC(Digital Remote Control)control panel:_____

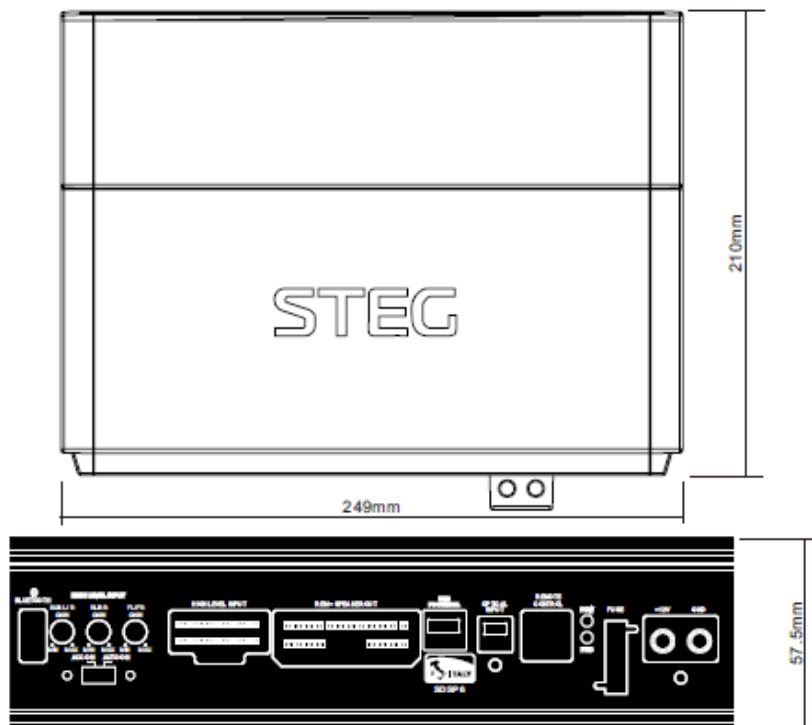


- 5.0 m DRC-AC Link cable _____



DSP AND DRC INSTALLATION

External dimensions



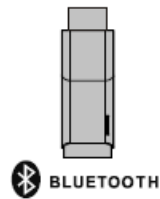
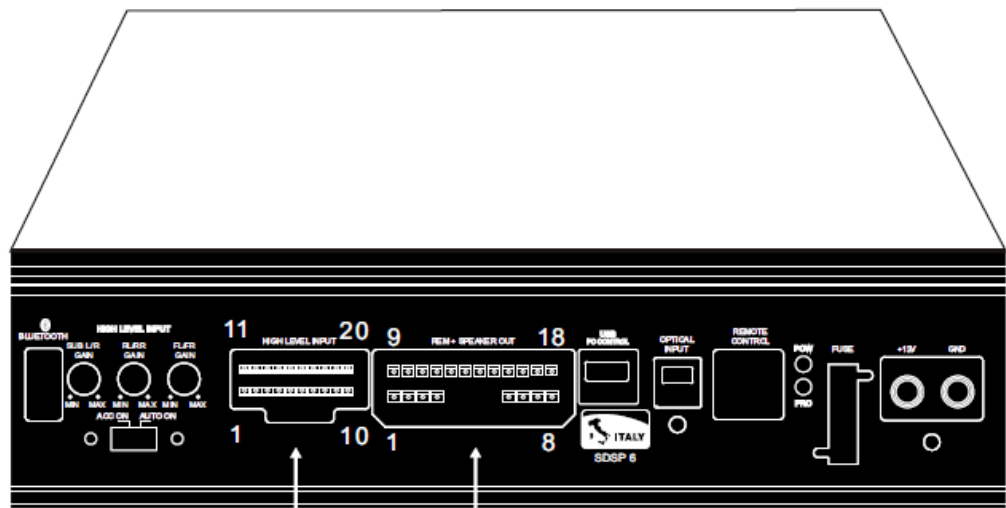
How to install



WARNING: do not use aggressive cleaning agents or abrasive cloth to clean the display. Simply use a soft cotton colth lightly damped with water

CONNECTION PANELS-DESCRIPTION

Input signals



HIGH LEVEL-INPUT

- | | |
|-----------------|-----------------|
| 1.post RL + | 11.post FL - |
| 2.post FR + | 12.post FR - |
| 3.post RL + | 13.post RL - |
| 4.post RR + | 14.post RR- |
| 5.post SUB L + | 15.post SUB L - |
| 6.post SUB R + | 16.post SUB R - |
| 7.post COAX GND | 17.post COAX + |
| 8.post AUX L | 18.post AUX R |
| 9.post GND | 19.post GND |
| 10.post CH6 OUT | 20.post CH5 OUT |

COAX-INPUT

SPEAKER OUT+POWER INPUT

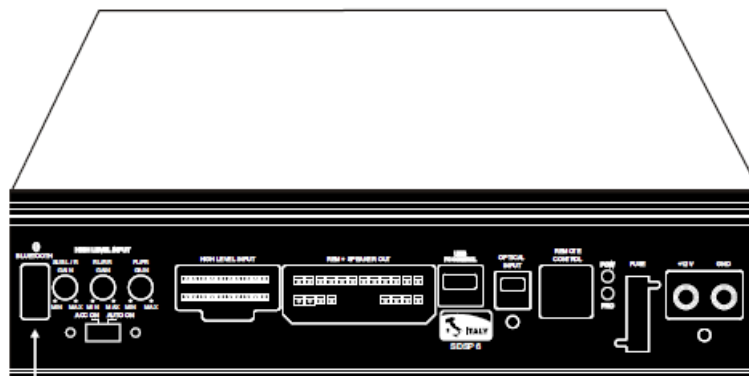
- | | |
|-------------------|-------------------|
| 1.post CH1 OUT - | 10.post CH2 OUT + |
| 2.post CH2 OUT - | 11.post CH3 OUT + |
| 3.post CH3 OUT - | 12.post CH4 OUT + |
| 4.post CH4 OUT - | 13.post REM OUT |
| 5.post CH5 OUT - | 14.post REM IN |
| 6.post CH6 OUT - | 15.post CH7 OUT + |
| 7.post | 16.post CH8 OUT + |
| 8.post | 17.post |
| 9. Post CH1 OUT + | 18.post |

INPUTS; FR-FL-RR-RL, SUB R-SUB L inputs(SPEAKERS)

The DSP comes with 6 HI-LEVEL signal inputs to connect amplified signal cables coming from the main Analog source. input sensitivity is adjustable from 2 to 15V RMS.

Remark: if a low-level output source (PRE OUT)with output signal equal or greater than 2 V RMS is available, you can Connect it to the high-level MASTER input(SPEAKERS). Sensitivity is increased by adjusting the IN LEVEL controls

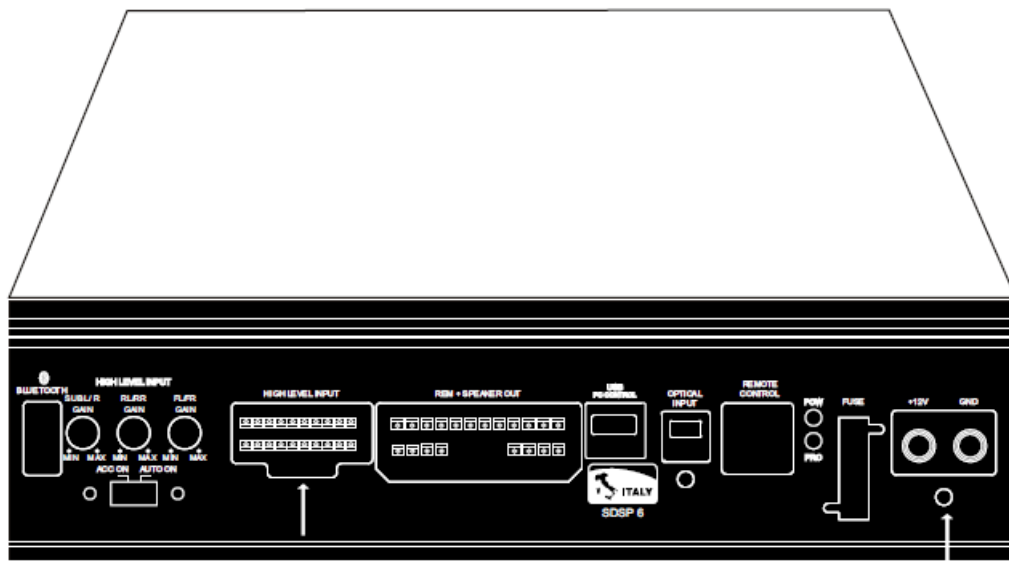
USB signals



USB(type B)connection plug, to connect the processor to a PC and manage its functions through the DSP 3

Software. The connection standard is USB 1.1/2.0 compatible.

Input – remote control outputs and power supply



POWER SUPPLY

+12V: Positive connection terminal for car 12V power supply.

GND: Power supply negative connection terminal(GND).

WARNING: make sure the connection polarity is as indicated on the terminals. A misconnection.

May result in damage to the DSP. After applying power, wait at least 10 seconds

Before turning the DSP on.

REMOTE IN-OUT

REM IN: input to turn on the processor remotely along with the audio signal remote Out.

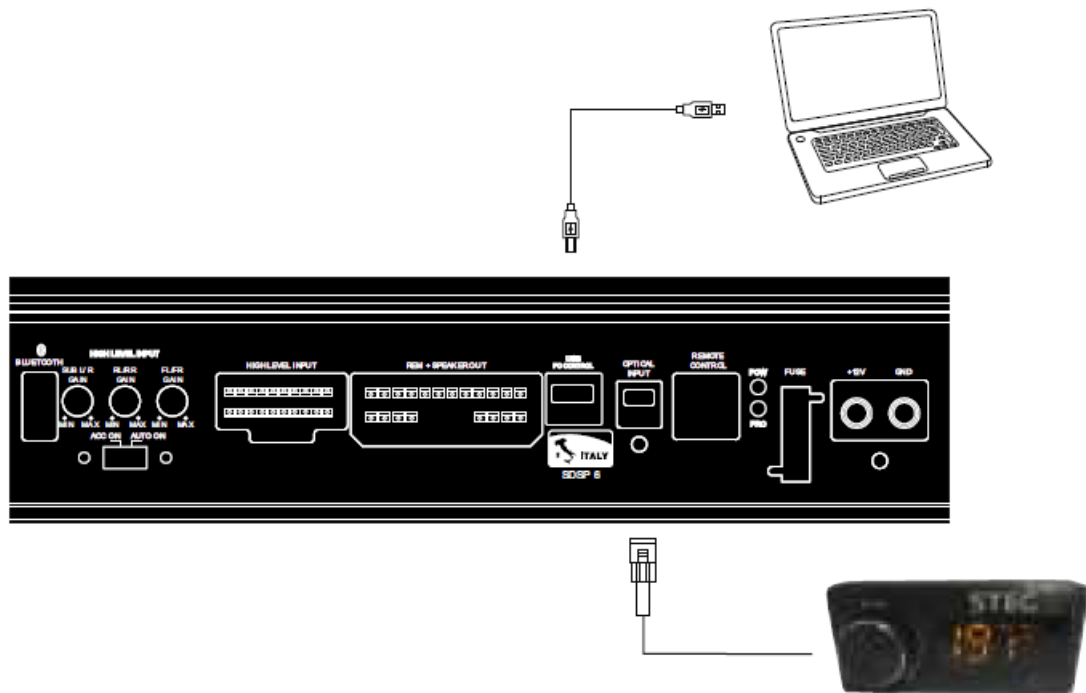
REM OUT: output to turn on other devices/amplifiers connected after the processor.

From the REMOTE-IN signal, the processor only takes 1 second to supply the signal to the REM OUT output. The 130-mA output current capability can also drive an automotive relay (Making sure it does not exceed 130 mA).

CONNECTIONS

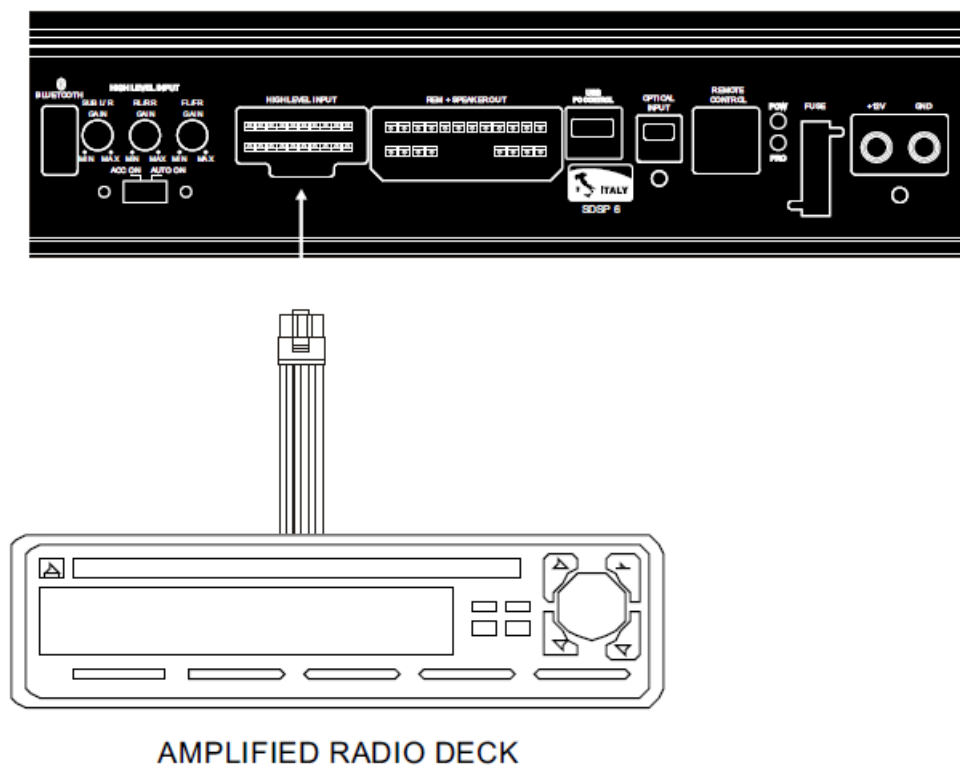
Power supply and remote turn on

WARNING: to power the device, use 1 mm (16 AWG) cables.



High-Level input signals

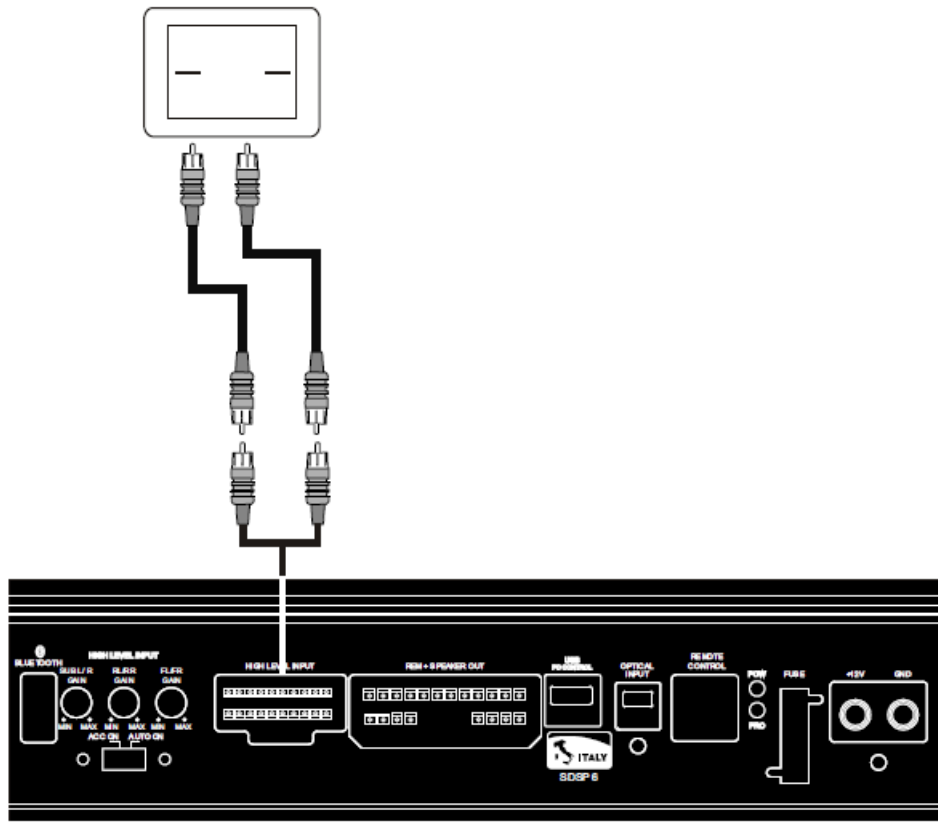
SPEAKERS IN HI-LEVEL STEREO FRONT+REAR+SUBWOOFER .



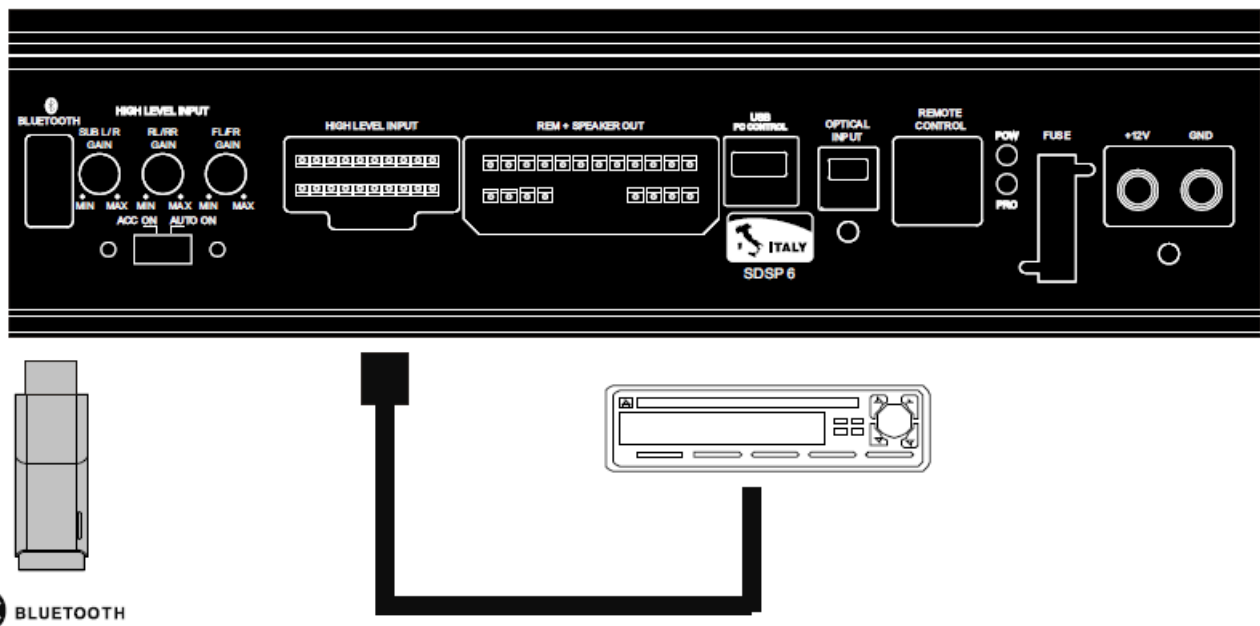
Output signals

Output to an amplifier is system

Output to an amplifier is system .



Low-Level ,BLUETOOTH input signals

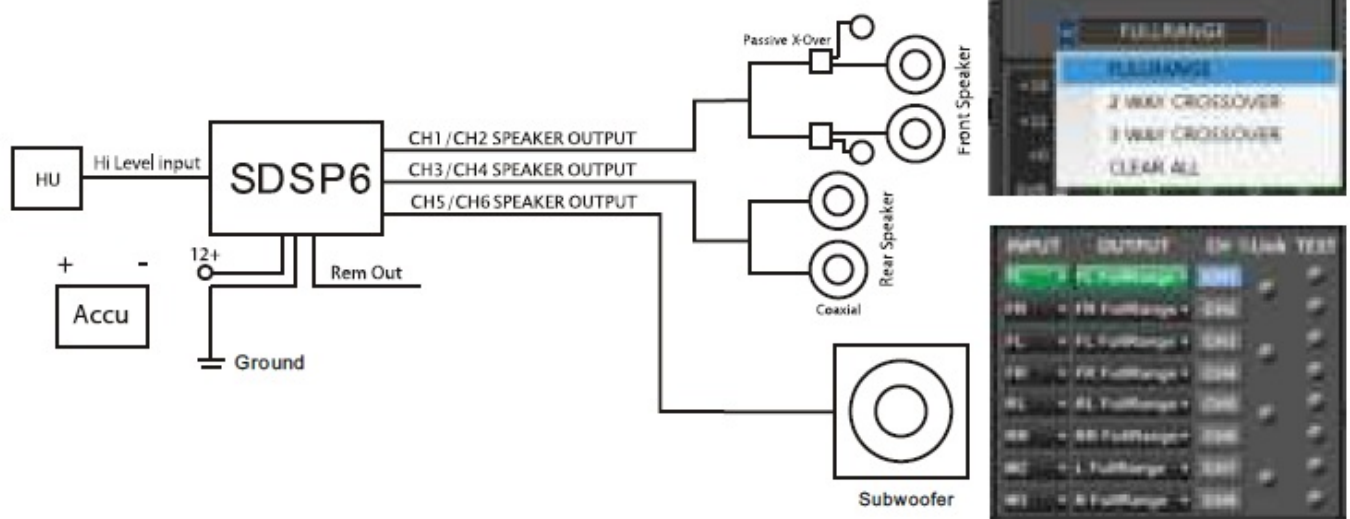


Bluetooth IN :

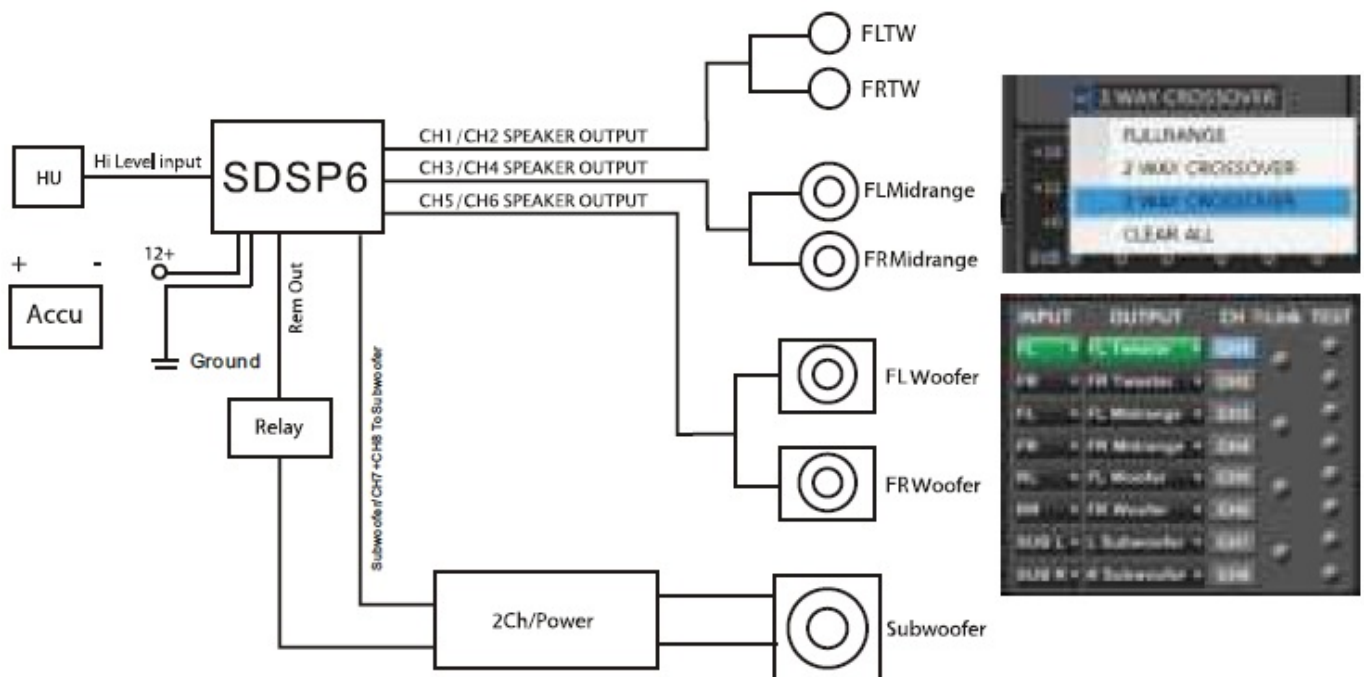
Insert the Bluetooth control module into the DSP . turn on your mobile phone and find the Bluetooth control mode. Click on the Bluetooth . When the control mode is automatically Paired successful . Then you can play the music. Output to an amplifier is system. **DO NOT INSERT THE USB.**

STAND INSTALLATION REFERENCE

CHANNEL STAND ALONE TREBLE MODE



3 WAY CROSSOVER TREBLE MODE



REMOTE INTRODUCTION



1. A. Main volume.
 B. When you press this button for a short time, It is in the MUTE state. And the close MUTE .
 C. When you press this button for a longer time(for a second) ,It will enter the menu mode . In the MODE or INPUT fishing. You can adjust the mode which you want.
2. Main volume display window.

3. DSP mode display window(1-8).
4. Input display status.(CD.AUX.SPDIF.WIFI).

PHONE APP INTRODUCTION

Download DSP APP and install it on your phone



Click install



Click open



1. Input Mode

To select different input devices MAIN.AUX.SPDIF.COAX.BLUETOOTH.

2. Dsp Main volume display.
3. Dsp Main volume control.
4. MODE SETUPS (1-8POS) .
5. Click on the Bluetooth. when the control mode is automatically paired successful. Then you can play the APP.
6. Dsp subwoofer volume display.
7. Speaker mute control.

Remark: APP can not be joined to DSP when the computer is connected to DSP



Documents / Resources



[STEG Digital Signal Processor](#) [pdf] Owner's Manual
Digital Signal Processor, SDSP 6

References

- [S available.it - This website is for sale! - available Resources and Information.](#)