



## BLAUPUNKT GTD 1610 A CLASS AB Amplifier with DSP Instruction Manual

[Home](#) » [Blaupunkt](#) » BLAUPUNKT GTD 1610 A CLASS AB Amplifier with DSP Instruction Manual 

BLAUPUNKT GTD 1610 A CLASS AB Amplifier with DSP



## Contents

- [1 CAUTIONS](#)
- [2 Scope of Delivery](#)
- [3 INPUT FUNCTION](#)
- [4 INSTALLATION](#)
- [5 SPECIFICATION](#)
- [6 WIRING DIAGRAM](#)
- [7 SOFTWARE OPERATION \(WINDOWS\)](#)
- [8 TROUBLESHOOTING](#)
- [9 Documents / Resources](#)
- [10 Related Posts](#)

## CAUTIONS

This device has been manufactured according to established safety guidelines. However, dangers may still occur if the safety notes in this manual is not observed. This manual is intended to familiarize the user with the device's important functions. Read this carefully, prior to using the car radio. Keep this manual in an easily accessible location. In addition, do observe the instructions of other devices used in conjunction with this device.

### Installation Safety Notes

Always observe the following safety notes:

- Device must be used in a way that compliments safety of the user when driving the vehicle. It is recommended for the user to install at an appropriate location when operating the device. While driving, user is not recommended to use applications that can be prone to distraction.

- Before installation, disconnect the negative terminal of the battery. Refer to the safety vehicle manufacturer's user manual.
- Ensure positions of the holes are nowhere near the vehicle component to avoid any damage during drilling.
- Ensure cross section of the cables is not more than 5mm if the positive and the negative cables are too long. incorrect installation may result in malfunction of the device or the car sound system.
- Select a dry and well-ventilated location to install the device.
- The device must not be installed in overly exposed location.
- The installation location must be suitable for screw holes and stable ground support

### **General Safety Notes:**

Observe the following for protection against injuries:

- User is advised to keep the volume of the car radio to a moderate level for the protection of the ears and to increase the ability to hear any emergency warning signals (e.g. police and ambulance sirens). Do not increase the car radio volume while the car radio is muted as it is not audible. The car radio volume can be too loud when the car radio is unmuted.

### **Disclaimer**

- Blaupunkt is not liable for any loss or damage caused or resulting from unauthorized disassembly or modification to the product.
- In no event shall Blaupunkt be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, improper storage, whatsoever arising out of or connected with the use or misuse of our products.
- USA & CANADA: This product is not intended for sale in the United States and Canada. If purchased in the U.S. or Canada, this product is purchased on as-is basis. No warranty, whether expressed or implied is provided in the U.S. or Canada.

### **Voltage Supply**

- + 12V: Positive connection terminal for car 12V power supply.
- GND: Power supply negative connection terminal.
- Firmly and carefully connect the ground lead to a bare metal point on the vehicle chassis.
- Operation temperature: 0° – 70°C

### **Compatible PC OS**

PC – with or higher than Windows XP

### **Scope of Delivery**

- Digital Signal Processor (212.6 x 161 .6 x 48.5mm)
- 8x Screws (M3x6)
- 4x Screws (M4x18)
- 4x Mounting Brackets (46x22x2mm)
- 1 x Wireless Remote Control & Receiver (Optional)

- 1 x 5.0m Remote Control (Optional)
- 1 x 2.0m USB Cable
- 1x4P Cable
- 2x Universal 20P Wiring Harness

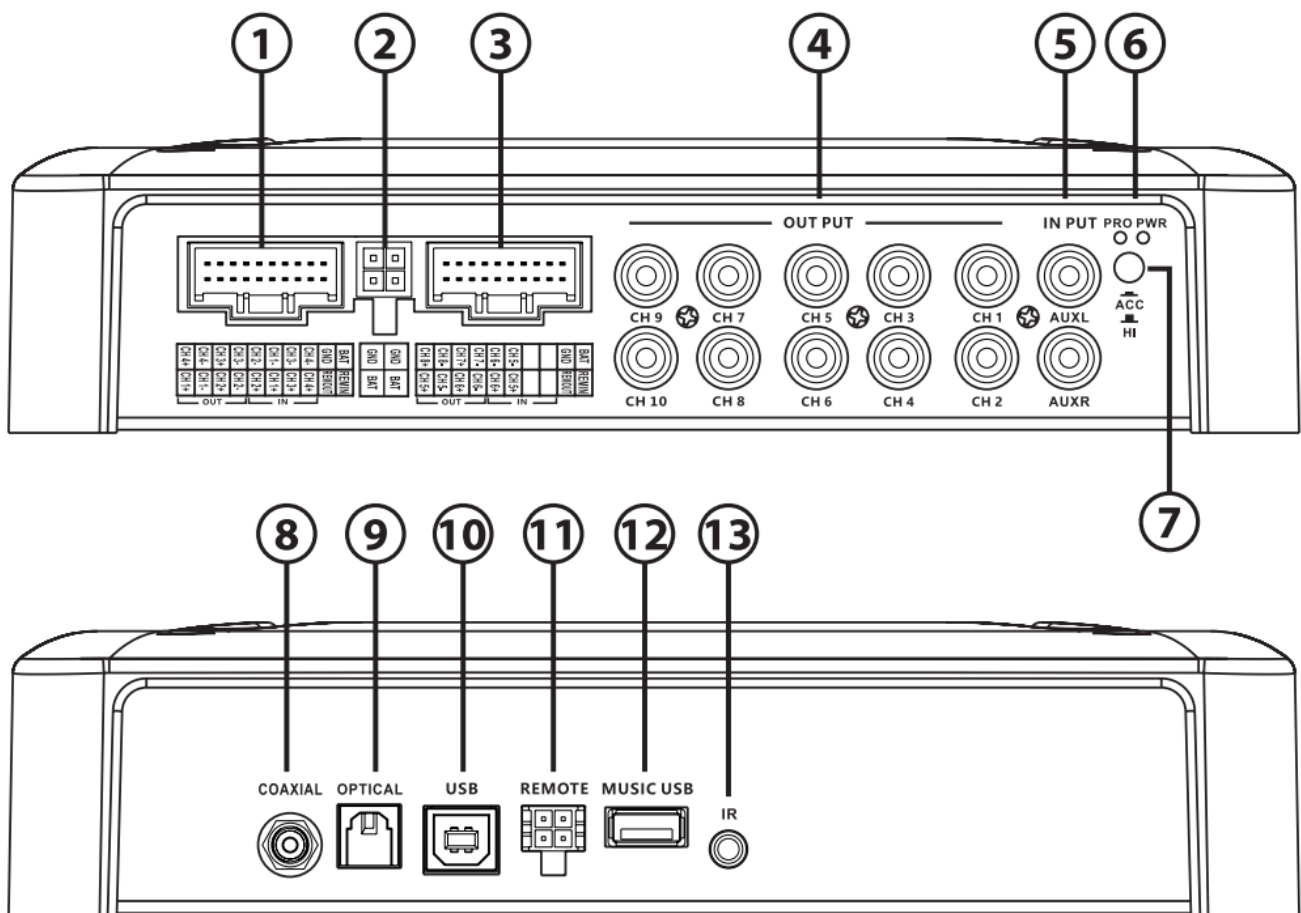
## Disposal Notes



Do not dispose of your old unit in the R household trash!  
Use the return and collection systems available to dispose of the old device.

This manual may be updated from time to time without any notice. Visit [www.blaupunkt.com](http://www.blaupunkt.com) for more info.

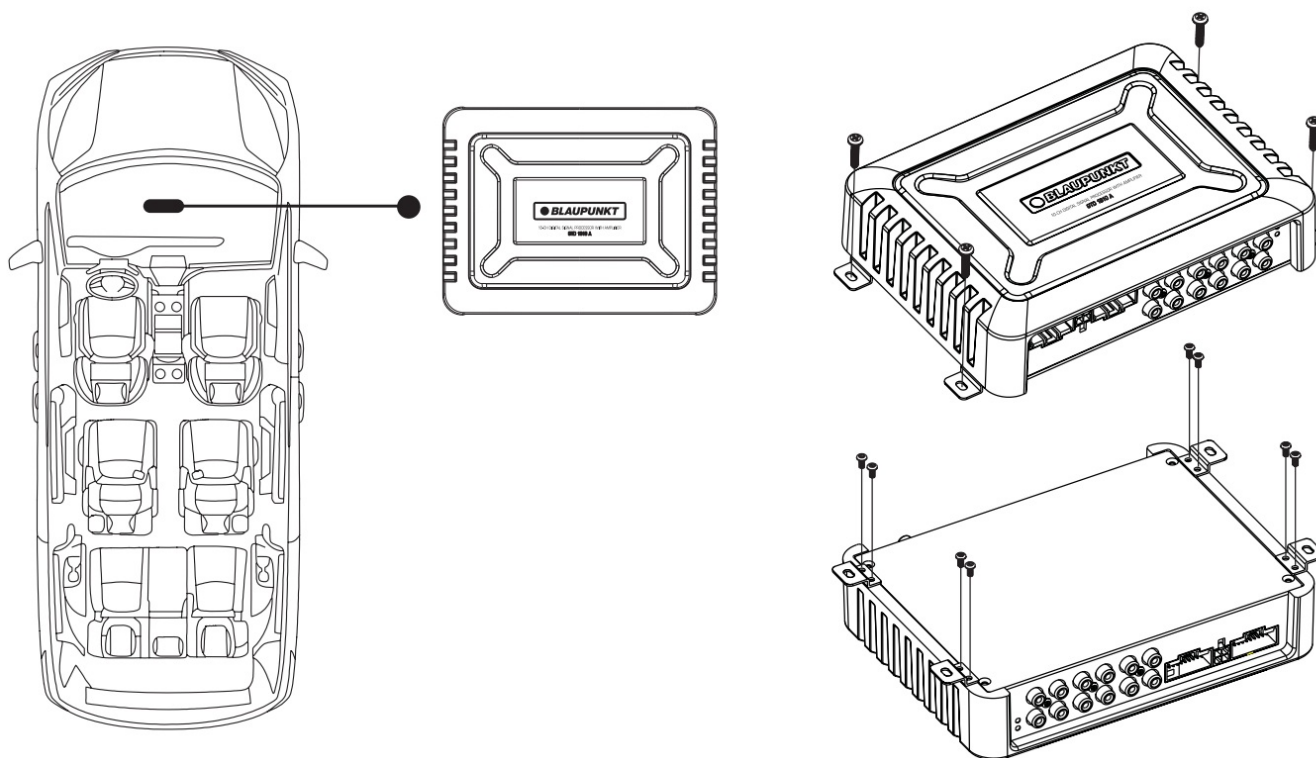
## INPUT FUNCTION



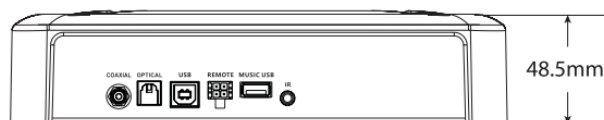
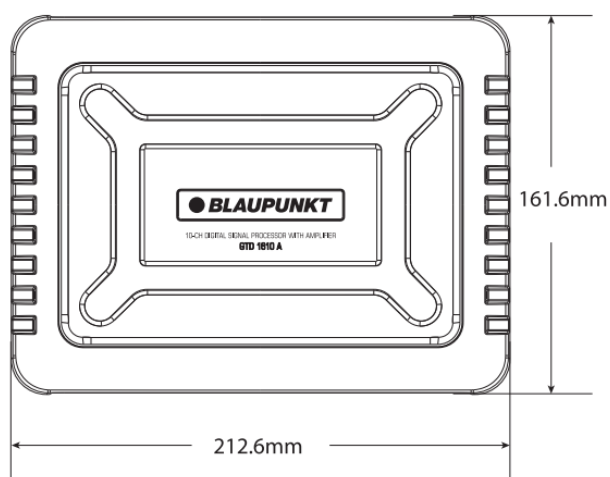
1. Ch 1 ~Ch4 Speaker Outputs/ Ch 1 ~Ch4 Hi Level Inputs/ Power/ ACC
2. Power
3. Ch5~Ch8 Speaker Outputs/ Ch5~Ch6 Hi Level Inputs/ Power/ ACC
4. Ch 1 ~Ch 10 RCA Outputs
5. RCA Inputs
6. Power & Protection LED
7. Auto Power On (Hi-level Input/ ACC)
8. Coaxial Input

9. Optical Input
10. USB2.0 Port
11. Remote Control
12. USB Player
13. IR

## INSTALLATION



## SPECIFICATION



## Audio

- DSP RMS Power : S60W
- DSP Resolution: 24 Bit
- DSP Output Power RMS@ 4 Ohms (:s;1 % THO

- +N}:35Wx8
- DSP Output Power RMS@ 2 Ohms (:s;1 % THO
- +N}:50Wx8
- Distortion (THO} : :s;0.1 %
- Damping Factor: > 70
- Operating Voltage : 1 0 -14.4V
- Sampling Rate: 96KHz
- Signal Converter A/D : Burr-Brown
- Signal Converter D/ A: Burr-Brown

#### Input

- 2 x RCA/ Aux-in
- 6 High Level Speaker Input
- 1 x Optical Input
- 1 x Coaxial Input
- BT Input
- RCA/ Cinch Sensitivity: 300mV
- High Level Input Sensitivity: 2.SV
- Impedance High Level: 51 Ohms
- S/N Ratio Analog-in : 1 00dB

#### Output

- 1 Ox RCA/ Cinch
- 8 High Level Speaker Output
- 1 x Remote-out
- Voltage RCA/ Cinch : 4V RMS

#### Feature

- Class AB Amplifier
- Max. Output Power : 560W
- Frequency Response: 1 0Hz-22kHz
- Max. Current Draw: 30A
- Dimension (W x H x D}: 212.6 x 161.6 x 48.5mm
- Weight: 1.05 kg

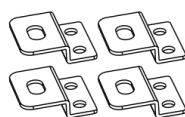
#### Accessories



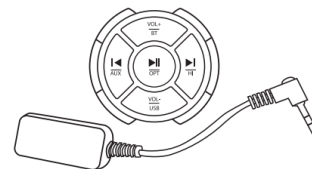
8x Screws (M3x6)



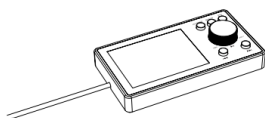
4x Screws (M4x18)



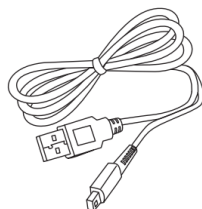
4x Mounting Brackets  
(46x22x2mm)



1x Wireless Remote Control  
& Receiver (Optional)



1x 5.0m Remote Control  
(Optional)



1x 2.0m USB Cable



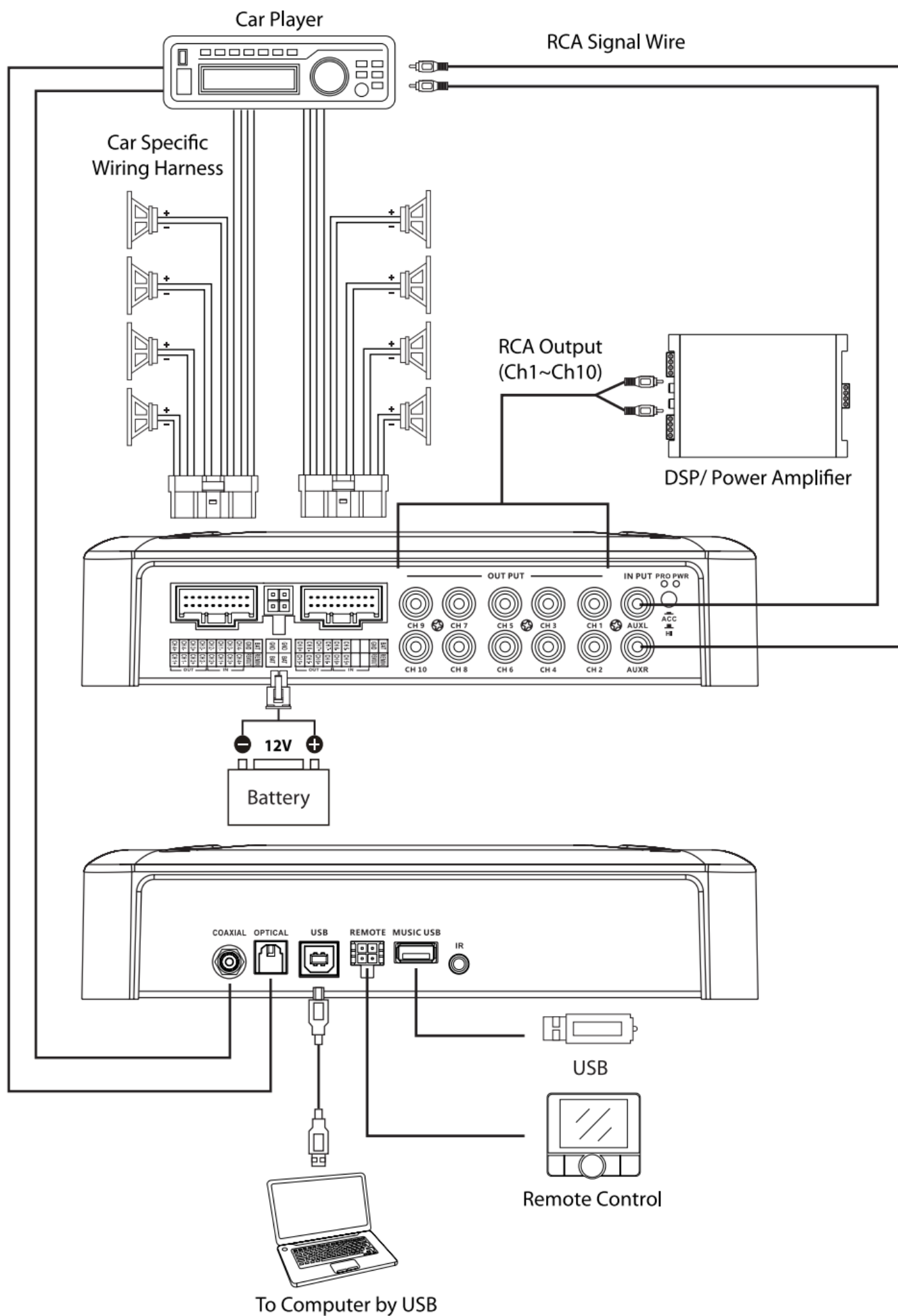
1x 4P Cable



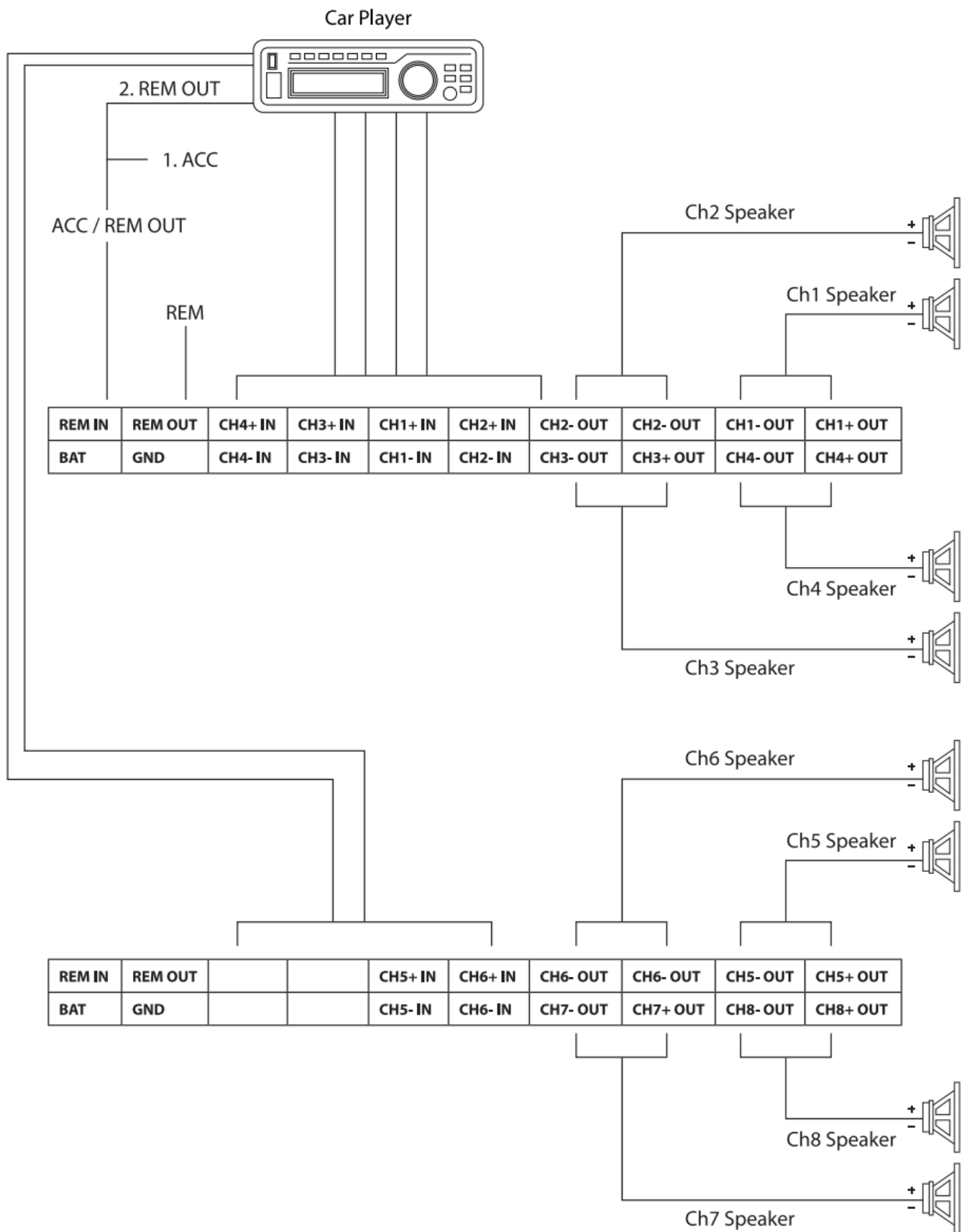
2x Universal 20P  
Wiring Harness

## WIRING DIAGRAM

Car Specific Wiring Method







## SOFTWARE OPERATION (WINDOWS)

Blaupunkt GTD 1610 A Software

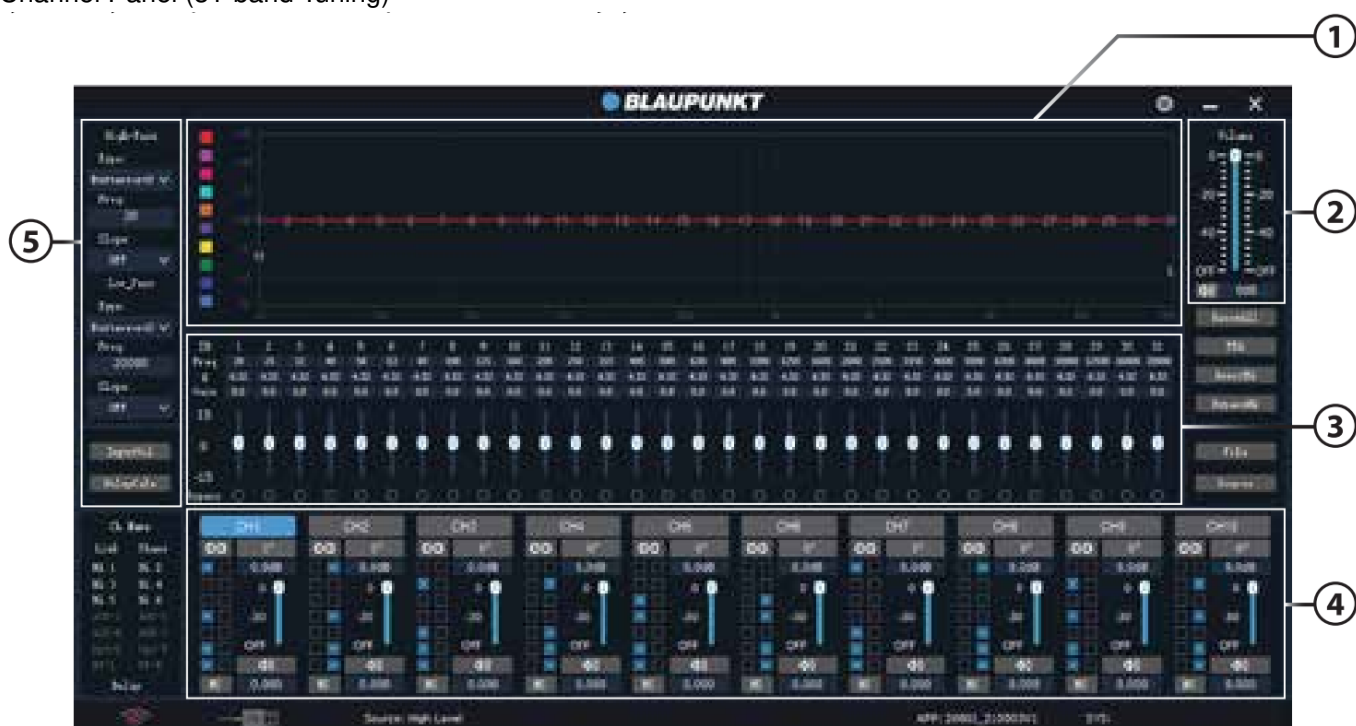
Visit [www.blaupunkt.com](http://www.blaupunkt.com) to download the software.



GTD 1610A MPD 610A MPD 1012 A.exe

Car entertainment enthusiast/ experts may now begin to tune signal details. Enhance the sound effect according to your very own preference for optimum music enjoyment with the DSP software.

Channel Panel (31-band Tuning)



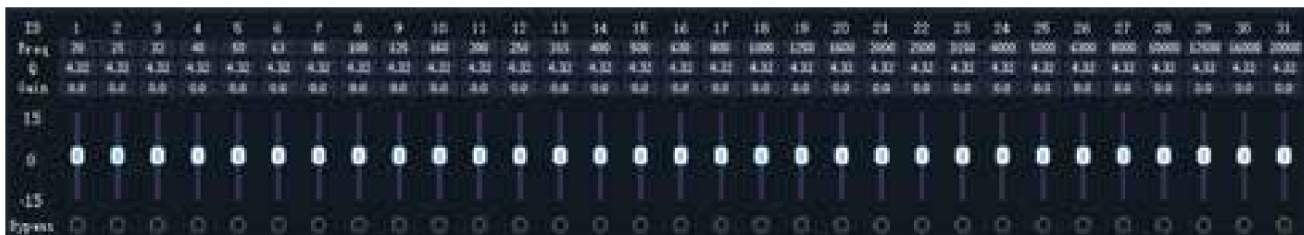
1. 31-band Tuning Waveform



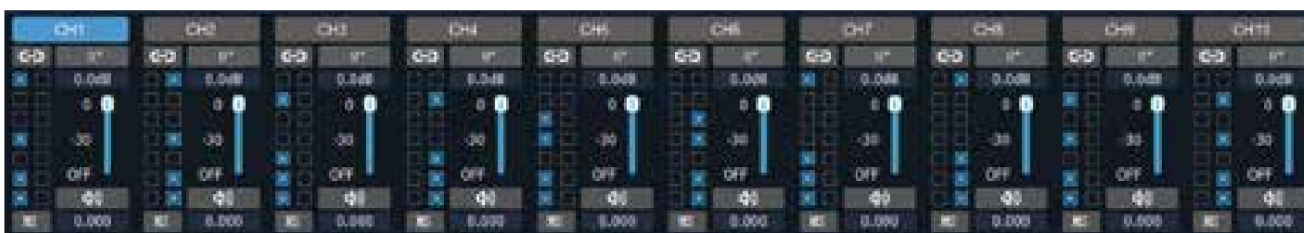
2. Main Volume Control



### 3. 31-band Equalizer Control



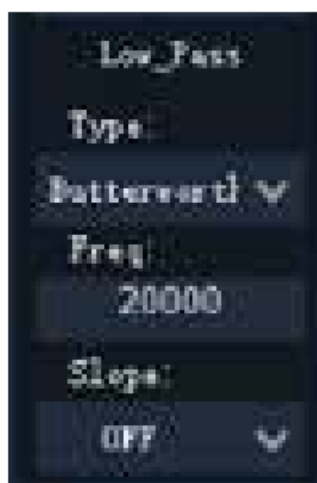
### 4. 10-channel Control



### 5. Crossover Frequency Setting :

3 Types of High-pass Frequency

3 Types of Low-pass Frequency




## TROUBLESHOOTING

If any of the following problem occur, please resort to Troubleshooting for the possible solutions. Consult Blaupunkt authorized dealer if problem persists.

Problem	Solution
Amplifier power up failure	Examine if the ground connection is intact.
	Examine if remote input has at least 5V DC.
	Examine if battery power is connected correctly to the + terminal.
	Ensure supplied voltage is minimum 12V.
	Examine if fuse is broken and replace if necessary.
	Restart the device if protection LED light is on.
No sound output	Examine fuses and replace if necessary.
	Examine if ground connection is intact.
	Examine if remote input has at least 5V DC.
	Examine if RCA audio cables are connected to the right inputs.
	Examine if speaker wiring is intact.
Low sound output	Reset Level Control
	Examine the Crossover Control setting.
Buzzing noise	Observe if the device is still producing noise after turning on and off the amplifier. If yes, examine if the cables are correctly connected and if the cables and radio are in good condition.
	Repair or replace if the cables or the radio are not in good condition.
Squealing noise interference	Ensure RCA connections are properly connected.
Distorted sound output	Ensure input level of the device matches the signal level of the head unit.
	Always set the input level to the lowest.
	Examine if crossover frequency is set correctly.
	Examine if speaker wire had short-circuit.
Amplifier temperature increased	Examine if the minimum speaker impedance for the amp models is correct.
	Ensure good air ventilation around the device. Add external cooling fan if necessary.
Engine noise (static sound) interference	Usually caused by poor RCA cable quality, which release noise. Use only the best quality cables, and route them away from power cables.
Engine noise (alternator whine) interference	Examine if RCA cable are nowhere near or attached to the vehicle chassis. Examine if head unit is properly connected to the wires.



## Documents / Resources

 <p>BLAUPUNKT CLASS AB AMPLIFIER WITH DSP <b>GTD 1610 A</b></p> <p>Enjoy it.</p> <p>Operating and Installation Instructions</p>	<p><a href="#">BLAUPUNKT GTD 1610 A CLASS AB Amplifier with DSP</a> [pdf] Instruction Manual GTD 1610 A, GTD 1610 A CLASS AB Amplifier with DSP, CLASS AB Amplifier with DSP, Amplifier with DSP, DSP</p>
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