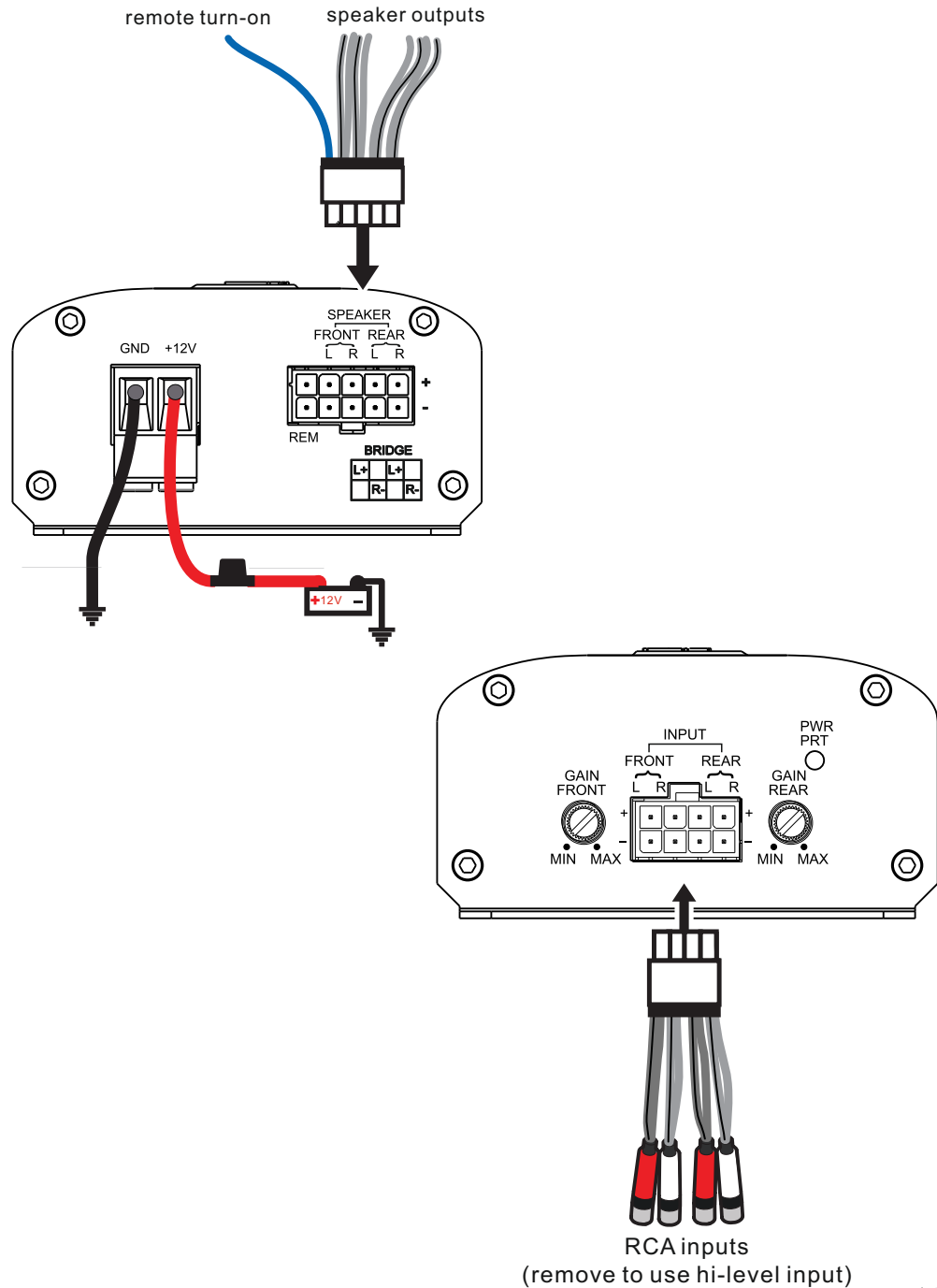


Installation



● **BLAUPUNKT**



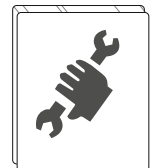
# 4 Channel Amplifier

VA 1004



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*Enjoy it.*



## Warranty

We provide a manufacturer's warranty for products bought within the India. For devices purchased outside India, the warranty terms issued by our respective responsible domestic agencies are valid. The warranty terms can be looked up at [www.blaupunkt.com](http://www.blaupunkt.com).

## Recommendation

The performance of an amplifier can only be as good as its installation. Correct installation increases the overall performance of your car sound system. The amplifier should be installed by a trained person. If you would to install it yourself, please read these installation instructions very carefully and allow yourself sufficient time for the installation.

In conclusion, allow us a few words about the topic of **health protection**.

During the playback of music in your vehicle, please consider that continuous sound-pressure levels above 100 dB can lead to permanent damage to the human ear and possibly even to loss of hearing. Using today's high-performance systems and loudspeaker configurations allows for reaching sound-pressure levels above 130 dB.

## Safety notes

Please observe the following safety notes during the installation and connection.

- Disconnect the negative terminal of the battery! Observe the safety notes of the vehicle manufacturer.
- When you drill holes, ensure that you do not damage any vehicle components.
- The cross section of the positive and negative cable may not be less than 6 mm<sup>2</sup>.
- Use cable glands for holes with sharp edges.
- Incorrect installation can result in malfunctions of the electronic vehicle systems or your car sound system.

## Installation and connection instructions

With respect to accident safety, the VA1004 must be secured in a professional way.

When selecting the installation location, select a dry location that offers sufficient air circulation for cooling the amplifier.

The VA1004 must not be installed on rear shelves, rear seats or other locations that are open to the cabin.

The installation location must be suitable to accept the accompanying screws and provide a firm support.

The amplifier power cable must be equipped with a fuse no more than 30 cm from the battery to protect the vehicle battery in case of a short circuit between power amplifier and battery. The fuse of the amplifier protects only the amplifier, not the vehicle battery.

Use loudspeakers with **2-4Ω** impedance (see below details or installation drawing). Observe the maximum power handling capacity (music output). Do not connect loudspeakers to ground, use only the referenced terminals.

## Application options & loudspeaker connection

<b>Technical concept:</b>	Class D
<b>Number of channels:</b>	4/2
<b>Max. total power:</b>	720 watts
<b>RMS power 4 ohms:</b>	4 x 60 watts / 2 x 180 watts
<b>RMS power 2 ohms:</b>	4 x 90 watts
<b>Max. power 4 ohms:</b>	4 x 180w, 2 x 360w
<b>Frequency range:</b>	10 – 30,000 Hz (-3 dB)
<b>Stability (Stereo):</b>	2 ohms
<b>Signal / noise ratio:</b>	> 95dB/A @ RMS power (4Ω)
<b>Gain adjust:</b>	0.2 - 10V
<b>High pass filter:</b>	60 / 80 / 120 Hz @ 24dB
<b>Auto turn on:</b>	Yes
<b>Input Level Selector:</b>	Yes (high / low)
<b>Dimensions W x H x L:</b>	3.4" x 1.9" x 8.3"

### Audio inputs (see Page 4)

VA1004 is equipped to handle Low-level (RCA) & Hi-level (Speaker level) Audio inputs.

### Positive / Negative connection


- We recommend a minimum cross section of 6 mm<sup>2</sup>.
- Route commercially available plus cables to the battery and connect via fuse holder.
- Use cable glands for holes with sharp edges.
- Securely fasten commercially available negative cables to a noise-free earth point (chassis screw, chassis metal) (not to the negative terminal of the battery).
- Scrape the contact surfaces of the ground point until they are bright and apply some graphite grease.

### Integrated fuses (Fuse)

The fuses integrated in the amplifier (Fuse) protect the power amplifier and the entire electrical system in case of an error. If a replacement fuse is used, never bridge fuses or replace them with a type with higher current.

### Level control

The Level control is used to adjust the input sensitivity of the power amplifier to the output voltage of your car sound system preamplifier output.

The adjustment range is from 0.2V to 10V.  +12V

If a car audio system of a third party manufacturer is connected, the input sensitivity must be adjusted corresponding to the manufacturer data.

### A few important explanations in this context:

By turning the control clockwise, the input sensitivity of the amplifier and, therefore, also the volume increases. However, this is not a volume control; no further amplifier output can be achieved in the full position, even though it may sound like that at the beginning. The system merely increases the volume faster if the volume control of the car sound system is turned up.

### Loudspeaker connections

As with every audio component, the correct polarity of amplifiers & loudspeakers is of great importance for a good bass response. For this reason, ensure that the positive (+) terminal of the amplifier is connected with the positive terminal (+) of the loudspeaker; the same applies to the negative (-) terminal. In addition, the left amplifier channel must be connected with the left loudspeaker and the right amplifier channel with the right loudspeaker.

This amplifier is designed to power either 4 or 2 speakers. In 2 speaker mode (bridged) the minimum impedance of each speaker is to be 4 ohms. The amplifier is 2 ohm stable only when 4 speakers are connected.

### Note:

Caution: In a bridge circuit, the amplifier load must be 4 ohm or higher. A lower load leads to an overheating or shutdown of the amplifier and can cause permanent damage.

### 12V / DC offset selector:

In case the VA1004 is wired to an OE radio where no remote trigger is available to turn on the amplifier the DC offset option is to be activated. Remote connection of the amplifier with switchable +12 V voltage source.

This allows the amplifier to be switched on and off using the on/off-switch of the radio device.

## Adjusting the type & range of the crossover

Va1004 is equipped with a Hi-pass crossover & the selector to activate & select a desired crossover frequency point which is located on the bottom panel of the amplifier.

### Example:

At a setting of 120 Hz, the amplifier has a frequency range of 120 Hz to 20k Hz.

## 2/4 Channel input selector

VA1004 is equipped with a 2/4 channel input selector. In 2 channel input mode, signal is output from all 4 channels, if the selector is set at 2 channels input mode.

## Power-on indicator (PWR / PRO)

**Blue LED:** Output stage on, regular operating status.  
**Red LED:** Output stage is electronically switched off due to an error.

### Recycling and disposal

Please use the return and collection systems available to dispose of the product.

Subject to changes