

 **BLAUPUNKT**

POWER AMPLIFIER
EMA 14022



Enjoy it.

Operating and Installation Instructions

CAUTIONS

Proper system planning is vital in order to maximize the device's performance and road safety. Plan your installation carefully to avoid compromising performance reliability of the system. Consult an authorized Blaupunkt dealer for installation or reparation. Read the manual carefully before operating the device for the first time.

Safety Notes

Ensure to follow below safety notes during installation and wiring connection:-

- Disconnect the negative terminal of the battery. Refer to the safety notes of the vehicle manufacturer.
- Ensure positions of the holes are nowhere near the vehicle component to avoid any damage during drilling.
- Ensure cross section of the cable is no less than 2.5mm² if the positive and negative cables are too long.
- Incorrect installation may result in malfunction of the device or the car sound system.

Installation and Connection Instructions

- Select a dry and well-ventilated location to install the device.
- The device must not be installed in overly exposed location such on therear shelf, rear seat etc.
- The installation location must be suitable for screw holes and have stable ground support.

Integrated Fuse

The integrated fuse in the device protects the output voltage and the entire electrical system in case of malfunction. Do not replace damaged fuse with higher current.

General Safety Notes

Observe the following to protect yourself against injuries:

- The supply voltage requirement is 12V DC with grounded negative connection. Unauthorised dismantling or modifying may void the warranty of the device. Blaupunkt is not liable for any loss or damaged caused or resulting from unauthorized reparation or modification to the device. Refer to a Blaupunkt specialist in case of any installation or reparation required.

- The device's core components may be damaged when the car is driven on bumpy roads for a prolonged period of time or if it is used to play non-standard volume level.
- Please do not operate the car radio under extreme temperature conditions (extremely high temperature or extremely low temperature); ensure the temperature within the car ranges from -10°C to 85°C (Storage temperature : 5°C to 35°C) before connecting to the power supply.
- For abnormalities, please refer to TROUBLESHOOTING. Consult a specialist if the problem persist.
- Solvents, cleaning and scouring agents as well as dashboard spray and plastics care products may contain materials which can damage the surface and screen of the device. Use only dry or slightly moistened cloth to clean the device.

Disclaimer

- Under no circumstances shall Blaupunkt be held liable for any direct, indirect punitive, incidental, or special consequential damages, whether related to property or life, arising out of or connected with the use or misuse of our products, including but not limited to issues of improper storage.
- US & Canada: This product is not intended for sale in the United States and Canada. If acquired in the U.S or Canada, it is obtained on an "as-is" basis. No warranty, whether express or implied, is provided in the U.S and Canada.

Scope of Delivery

- Power Amplifier (131.5 x 111 x 45mm)
- 1 x Fastener Tapes (100 x 50mm)
- 1 x Plug & Play Wiring Harness for Android Head Unit

Disposal Notes

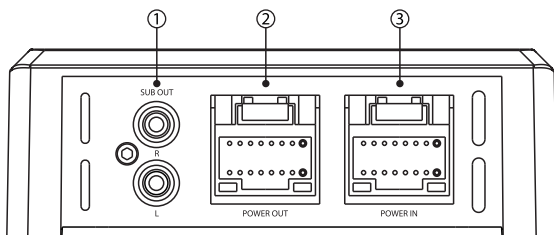


Do not dispose of your old unit in the household trash!

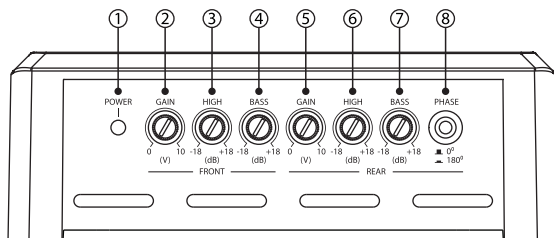
Use the return and collection system available to properly dispose of the old device.

This manual may be updated from time to time without any notice.
Visit www.blaupunkt.com for more information.

INPUT FUNCTION



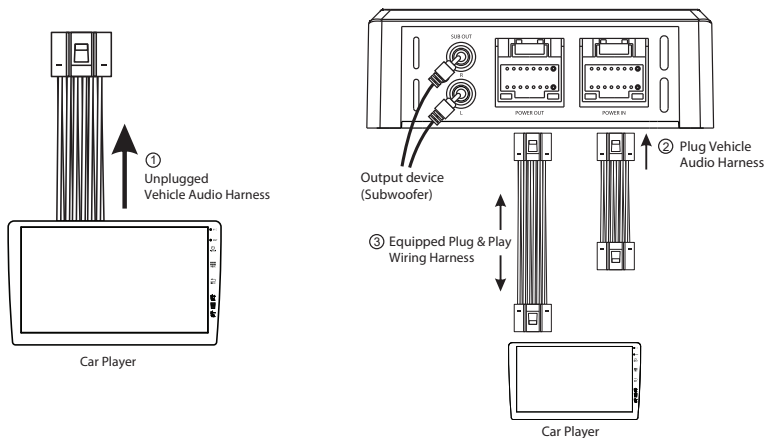
1. Subwoofer Low Level Outputs (L/R)
2. Power Output
3. Power Input



1. Power Indicator
2. Front Gain Control
3. Front High Control
4. Front Bass Control
5. Rear Gain Control
6. Rear High Control
7. Rear Bass Control
8. Rear Phase (0°~180°)

WIRING DIAGRAM

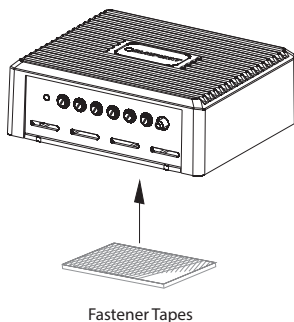
1. The vehicle audio harness is disconnected from the car stereo.
2. The vehicle audio harness is connected to EMA 14022.
3. Connect the plug-and-play wiring harness to both the car stereo and EMA 14022.



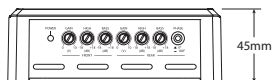
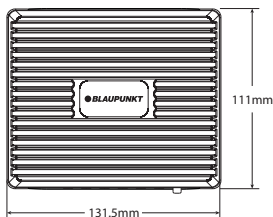
INSTALLATION POSITION

Fastener Tapes

Place the fastener tapes on the bottom of the amplifier and fix it on the floor.



SPECIFICATION



Audio

- RMS Power : 22Wx4(4 Ω), 38Wx4(2 Ω)
- Number of Channel : 4
- Number of PCB Layer : 2
- Max Output Power @ 4 Ω (\leq 1% THD +N) : 45Wx4
- Max Output Power @ 2 Ω (\leq 1% THD +N) : 72Wx4
- Total Harmonic Distortion (THD) : <0.1%
- Speaker Terminal
- Phase (Rear) : 0 deg /180 deg
- Bass (100Hz) : +/-18dB
- High (10kHz) : +/-18dB

Input

- 4 CH High Level Inputs
- High Level Input Sensitivity : 2V
- High Level Input Impedance : 10k Ohms
- S/N Ratio Analog-in : >60dB

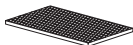
Output

- 2 x RCA/Cinch
- 2 CH Low Level Outputs

Feature

- Class AB Amplifier
- Max. Output Power : 288W
- Frequency Response : 20Hz-22kHz(+/-1dB)
- Load Impedance : 4 CH - 2/4 Ω
- Idling Current : 0.2A
- Voltage Supply : 10V-14.4V
- Dimension (L x W x D) : 131.5 x 111 x 45mm
- Weight : 0.6kg

Accessories



1 x Fastener Tapes (100x50mm)



1 x Plug & Play Wiring Harness for Android Head Unit

TROUBLESHOOTING

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

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 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 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.

