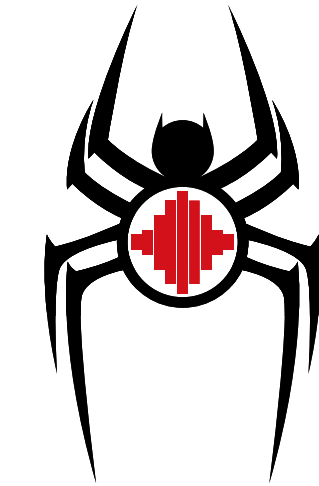


USER MANUAL



BSW-B8A
Class-D Active Subwoofer in a Box

INTRODUCTION

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 Blackspider dealer for installation or repair. 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 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 on the rear shelf, near seats or exposed locations.
- 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.

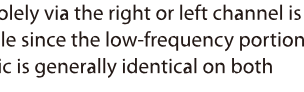
Switching On/Off

- This device will automatically turn on if audio signal is detected. The device will also automatically turn off if audio signal is received.

Voltage Supply

- Use the supplied power extension cable to connect to the positive battery terminal.
- Firmly and carefully connect the ground lead to a bare metal point on the vehicle chassis.
- The control of the device should be a two-channel control, either via the preamplifier output of the car sound system.

Remote Control



Turn the knob to adjust the volume to the desired level.

Disclaimer

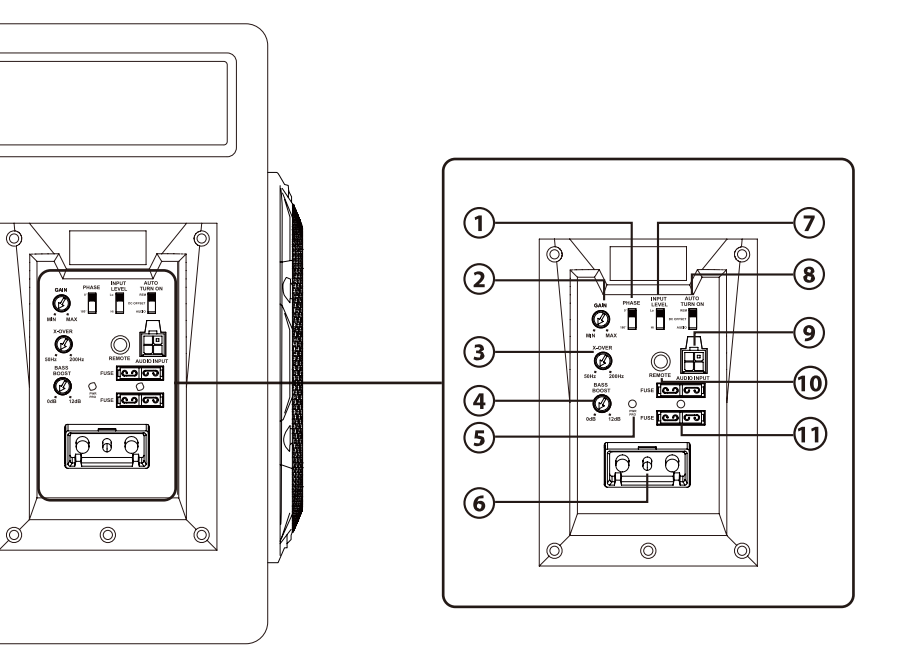
- In no event shall Blackspider be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, improper storage, whatsoever arising out of or connected with the use or misuse of our products.

Recycling and Disposal

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

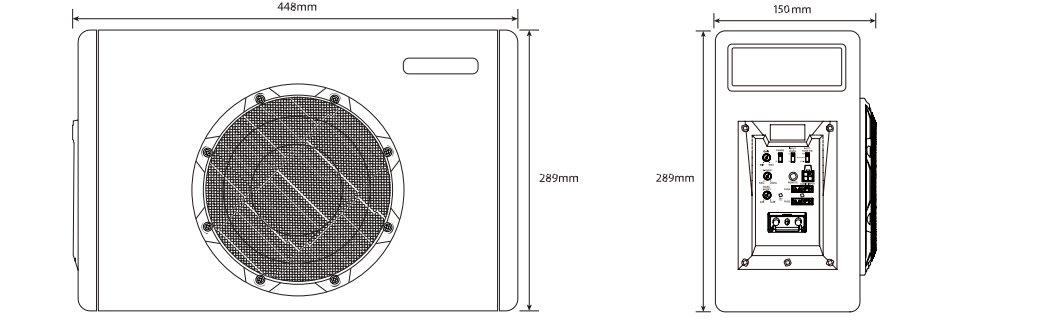
This manual may be updated from time to time without any notice.

FUNCTIONS CONTROLLING DIAGRAM



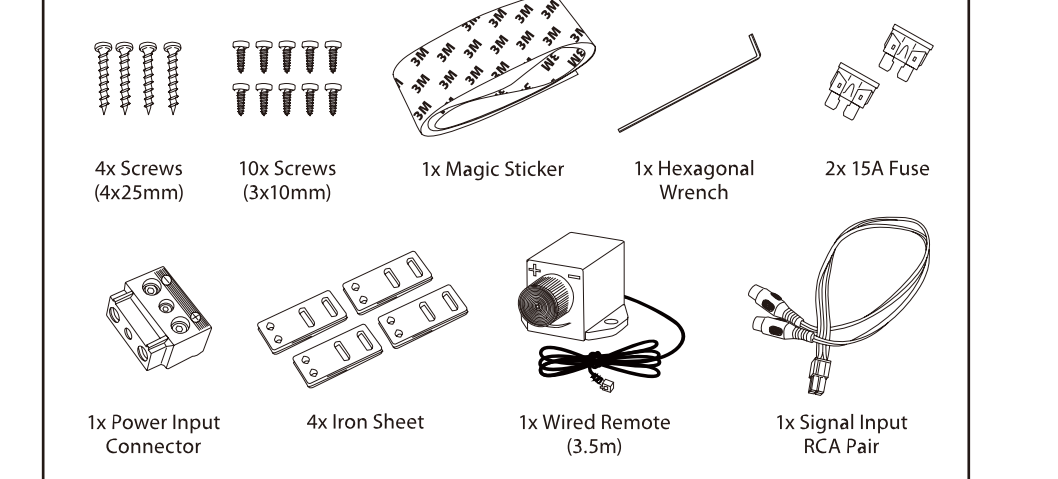
- Phase (0° ~ 180°)
- Gain Control (Min ~ Max)
- Variable Crossover (50Hz ~ 200Hz)
- Auto Turn On (+12V REM/ DC Offset/ Audio)
- Power/ Protect Light
- Power Connector
- Input Level (Low ~ High)
- Auto Turn On (+12V REM/ DC Offset/ Audio)
- Audio Input
- Remote Control Input
- Fuse

SPECIFICATION

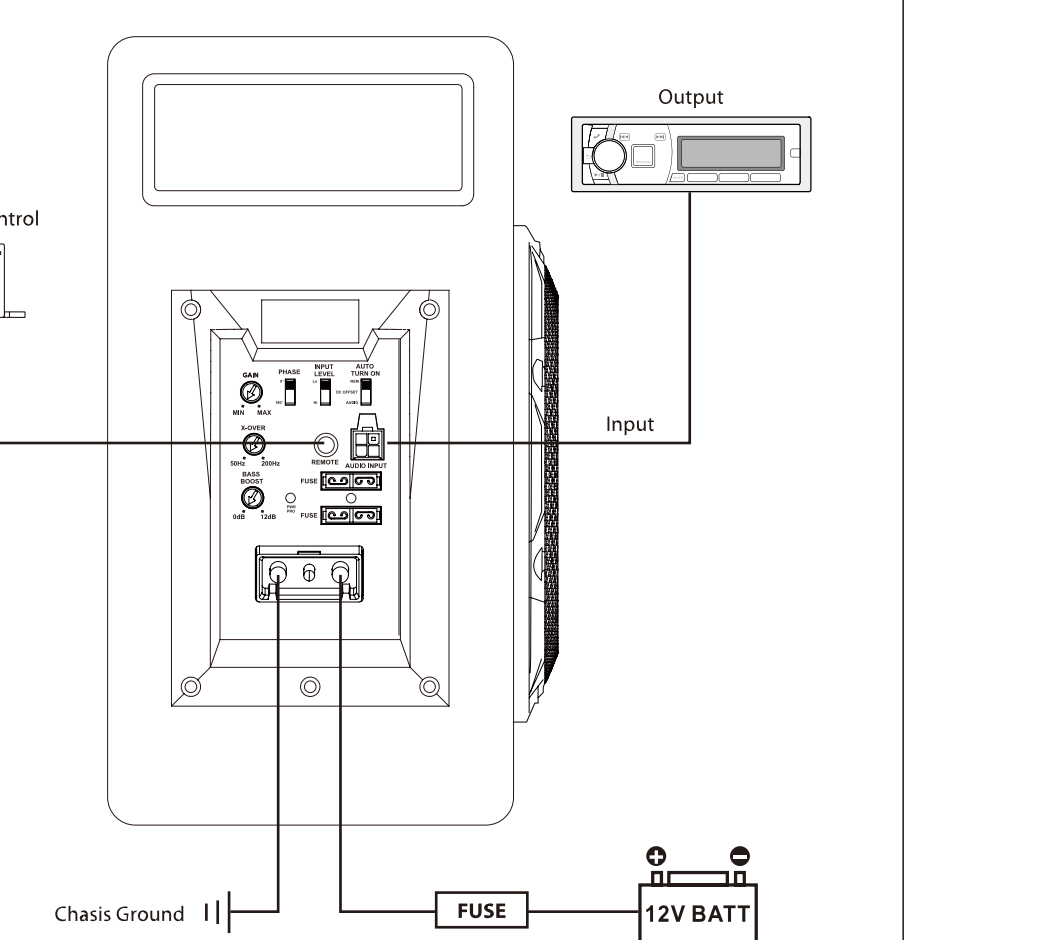


- Subwoofer**
 - Max. Output Power : 900W
 - Speaker Size : 8"
 - Cone Composition : Fiberglass, Paper Cone, Rubber Surround
 - Magnet Type : Ferrite
 - Wired Remote : Included
 - Enclosure Housing Material : MDF
 - Enclosure Dimension (LxWxH) : 448 x 289 x 150mm
 - Enclosure Net Weight : 9.7kg
- Amplifier**
 - Amplifier Technology : Class D
 - Normal Output Power (RMS) : 900W
 - Max. Output Power : 900W
 - Sensitivity (in Car/1W) : 88±3dB
 - Signal / Noise Ratio (dB) : 70dB
 - Impedance : 0.25 ohms
 - Frequency Response : 20Hz ~ 200Hz
 - Low Pass Filter (LFP) : 50Hz ~ 200Hz
 - Voltage : 10.5V-16V
 - Phase Switch : 0 deg / 180 deg
 - Automatic On/Off : 10mV
 - Audio in Sensitivity : RCA Low Level Input (V) RCA : 120mV ~ 5000mV

Accessories



WIRING DIAGRAM



INSTALLATION

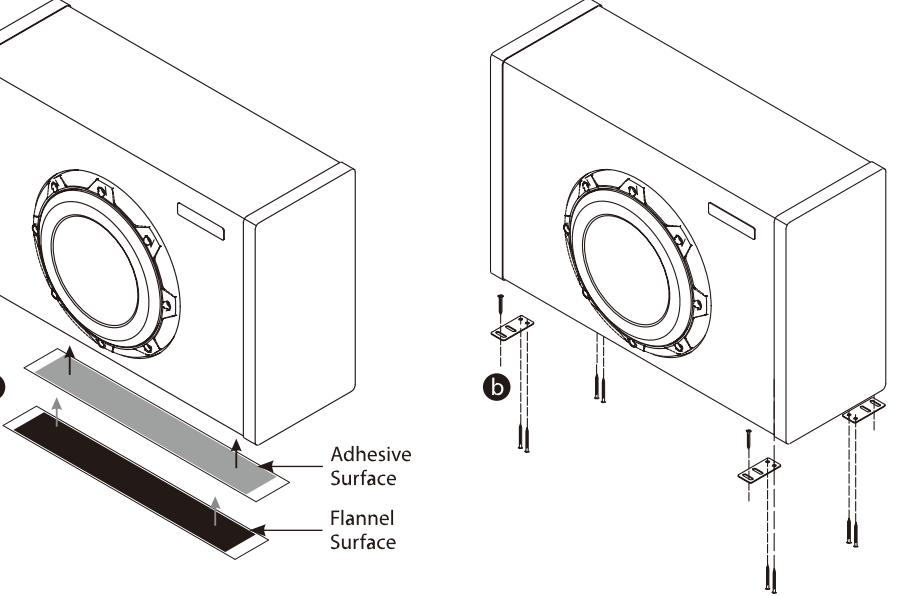
Select an ideal installation location to install the subwoofer. It can be installed by using magic sticker or iron sheets.

a) Magic Sticker

Place the magic sticker on the bottom of the subwoofer and fix it on the floor.

b) Iron Sheets

Fix the attached iron sheets to the bottom of the subwoofer by using (4x25mm) screws and (3x10mm) screws.



TROUBLESHOOTING

If any of the following problem occur, please resort to Troubleshooting for the possible solutions. Consult Blackspider 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.
Protection LED lights on when turn on	Examine speaker wire had short-circuit. Turn volume down from head unit to prevent overdriving the device. Device might need service or repair, if protection LED light is still on after resetting the device.
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	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.
Amplifier temperature increased	Examine if speaker wire had short-circuit. 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.