

FREUDE

OWNER'S MANUAL

CAR AUDIO SYSTEM

*PLEASE READ CAREFULLY BEFORE INSTALLING
OR OPERATING THIS UNIT*

FED-20A

8" Active Subwoofer

WARNING

Make sure you choose a suitable place to mount the unit. The position should be completely dry with a good circulation of air, and from a mechanical point of view very stable.

Thank you for purchasing FREUDE active subwoofer for your car. This active subwoofer does not take up much space on your vehicle, the product can be installed simply following the instructions, if you decide to install the product yourself, please read this manual carefully. This manual will help you quickly complete the installation.

FEATURES

1. The product is designed into ultra-small size, it's flexible and you could put anywhere in the rear compartment.
2. The 8-inch active woofer with two passive radiators special design effectively deepening the bass frequency band. Ultra-small enclosure combined with special woofer design, it can achieve or surpass performance of a normal 10-inch subwoofer.
3. High-power class AB amplifier produces natural bass effect.

KIND REMINDER

This active subwoofer is only suitable for installation in the trunk.

ATTACHEMENT

- | | |
|---------------------|-------|
| 1. Active subwoofer | 1 PCS |
| 2. User manual | 1 PCS |
| 3. Warranty card | 1 PCS |

SPECIFICATION

Type: 8"Active Subwoofer

Woofer Diameter: 8"

Cone: Paper Cone With Rubber Edge

Passive Radiator Diameter: 6.5"x2

Voice Coil: 1.2"(30.6mm)

Impedance: 4Ohm

Rms Power: 120W

Max Power: 240W

Signal-to-Noise Ratio: 80dB

Frequency Response: 40Hz-3,000Hz

Max SPL: 108±2dB/120W @4Ohm Class AB

Low Level input sensitivity: 100mV

Low Pass Filter: 50Hz-200Hz

Fuse Rate Power: 30A

Dimensions: (224+270)x255x245mm(WxDxH)

- A: Connect ground terminal to the position nearest the to amp on car chassis, by minimum 8AWG or heavier ground cable with no more than 39inch (100cm) long (not supplied).
- B: Connet controlling terminal by minimum 16AWG or heavier cable (not supplied) to the REMOTE output terminal of headunit.
- C: Connect the fuse box, without fuse, by 40cm length, and minimum 8AWG cable. Connect one side of fuse box to positive post of car battery and the other side of the fuse box to +12V active subwoofer terminal with 8AWG cable. Double check to make sure correct connection before putting the fuse into the fuse box.



A. Connect the ground terminal / negative cable in black to the car chassis on the position nearest to the active suwoofer.

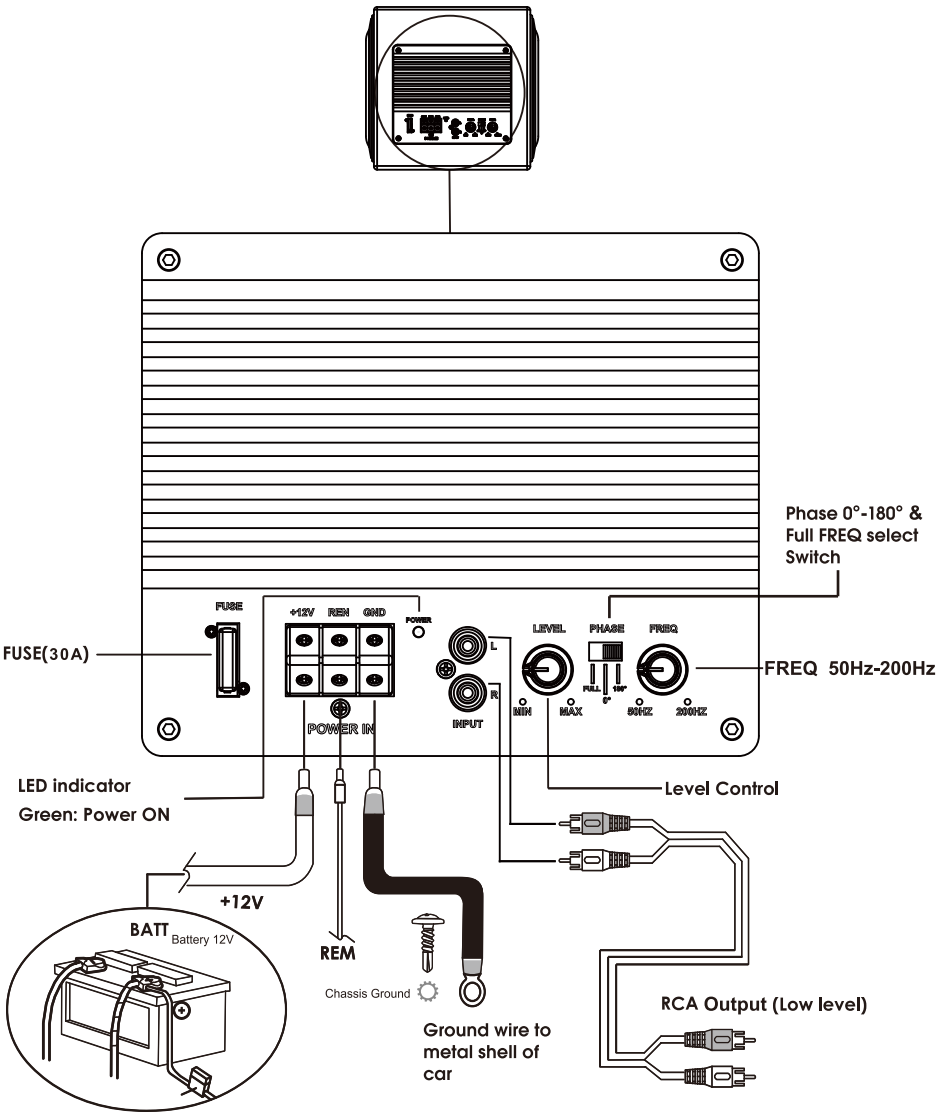
C. Power/possitive cable in red, get power from the car battery.(connect the power cable to possitive post of car battery)

INSTALLATION MANUAL

We strongly recommend you to installed the active subwoofer with professional help. But if you have to operate by yourself, this section lists the steps of how to install an active subwoofer in your vehicle.

WARNING

Continuous listening to high volume(>110dB) voice may jeopardize hearing ability. listening to voice over 130dB may causes permanent damage to hearing.



Trouble	Cause
can not start up	<ol style="list-style-type: none"> 1.Power cable ,ground cable whether connected well 2.Battery possitive post whether added on the possitive power terminal of amp. 3.Check voltage of remote not lower than 5VDC 4.Possitive terminal of power not lower than +12V 5.Fuse whether damaged.
LED indicator light off/no sound	<ol style="list-style-type: none"> 1.Adjusting the volume to avoid overloading 2.Disconnect RCA/high-level input cable, after the unit is cooling down restart it, if indicator light still off or not any sound produced, the unit had already been damaged, which needs to be repaired.
No output	<ol style="list-style-type: none"> 1.Fuse whether damaged. 2.Amplifier whether connected to ground 3.Start voltage of amplifier cannot lower than 5V DC 4.RCA or power input cable whether connected to amplifier well.
Low output	<ol style="list-style-type: none"> 1.Reset the volume. 2.Check the fliter whether in correct position.
Hissing when playing music	<ol style="list-style-type: none"> 1.Disconnect the amplifier signal input cable, if hissing disappears, it indicates signal problem. please make sure the signal cable whether connected well, or whether any quality problems exist in the cable. If not, please test wheteher there's problem with headunit. 2.Turn the amplifier at lowest volume, and turn louder the headunit in the same time, to avoid distortion.
Howling sound	<ol style="list-style-type: none"> 1.Check RCA whether connected well
Distortion	<ol style="list-style-type: none"> 1.Amplifier volume whether too large, it need to match with the headunit. 2.Check whether filter is at appropriate level.
Heating	<ol style="list-style-type: none"> 1.Amplifier assembly system whether in good ventilation
Warning sound	<ol style="list-style-type: none"> 1.Main cause is the bad quality of RCA signal cable, please change good quality ones which should stay far away from power cable.
Warning sound (Generator sparks sound)	<ol style="list-style-type: none"> 1.Check whether the RCA signal cable is connected to car chassis. 2.Check whether the headunit is connected to ground.



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The contents of this manual and the specifications of this product are subject to change without notice.
SICHERHEIT Company reserves the right to make changes to the specifications and materials contained therein without notice.