

SE SERIES

2200 } Class-AB 2 Ω -stable Full Range
4150 } Stereo Amplifiers

4000DE } Class-D Digital 1 Ω -stable
5000DE } Monoblock Amplifiers



**RELEASE
THE
BEAST®**

Congratulations

on your selection of a RE Audio **SE** series amplifier. We take pride in manufacturing our products and you can expect your new amplifier to give you years of trouble-free service. To make your installation as easy and reliable as possible, please read this manual carefully before beginning. If you need more information, your RE Audio Dealer will be glad to help. To locate a RE Audio Dealer near you, go to our web site and look for “Locate Dealer”.

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FEATURES

- Cutting-edge Design & Separate End-cap(Easy installation)
- Class-D 1-ohm stable Monoblock(4000DE, 5000DE)
- Class-AB 2-ohm stable Full Range Stereo(2200, 4150)
- Full MOSFET DC-DC PWM Power Supply
- Protection: Over-current, Over-voltage, Thermal, DC-DC Draft, DC-reverse, Speaker Short
- Double sided FR-4 PCB(4000DE, 5000DE)
- High Level Input Connector
- NI-plated RCA Input Connectors
- Variable Remote Bass Control(4000DE, 5000DE)
- Adjustable Gain Control
- Adjustable Low-pass, High-pass, Bass Boost(2200, 4150)
- Adjustable Low-pass, Subsonic, Bass Boost(4000DE, 5000DE)
- Line Outputs: Non-fading pre-amp output

INSTALLATION

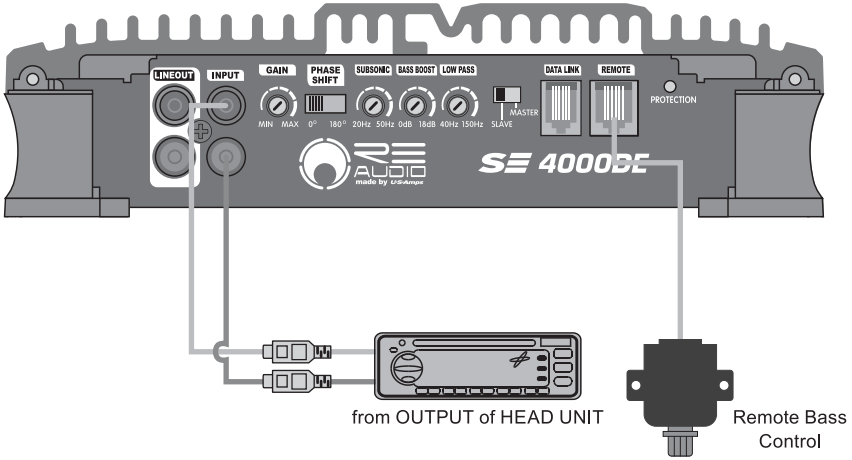
- Please choose a mounting place without any direct weather influences. Note that the amplifier generates heat so a well ventilated place is necessary.
- Use at least 8-gauge wire for power and ground connections
- Use at least 12-gauge wire for speaker connections
- Use at least 16-gauge wire for remote connection
- Keep the wire connections as short as possible in order to minimize power loss and provide a higher audio out quality
- Use the shortest ground connection to the chassis of the vehicle and make sure that the paint is removed at the connection point
- Connect the remote input to the remote/antenna output of the head unit
- Mount the fuse holder within 200mm(8") of the vehicle's battery. Use a fuse equal to that specified for your amplifier if a large, single +12V line is run which feeds more than one amplifier add up all required fuse ratings and use the total rating for the fuse
- Connect the speaker to the amplifier observing the correct phasing. Make sure that none of the speaker connections can touch the vehicle chassis
- Connect the RCA inputs to the appropriate signal source using only the highest quality RCA cables
- Make sure that the RCA and speaker cables do not run parallel to the +12V wiring

CONNECTIONS

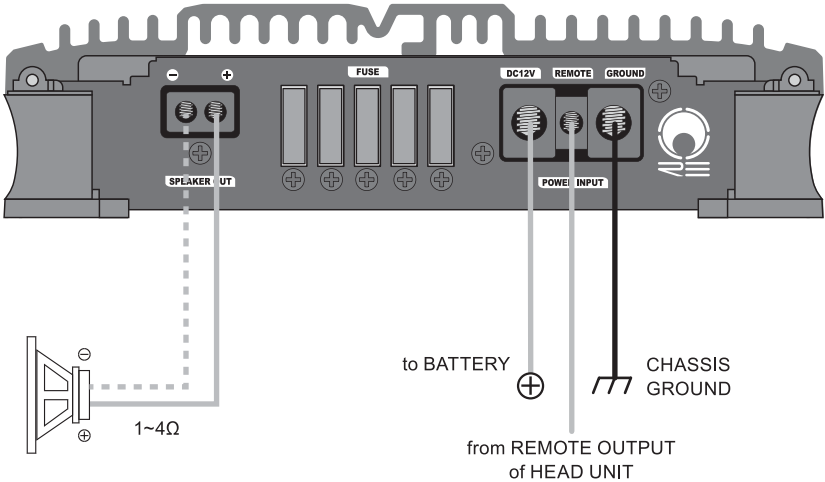
[Basic Wiring]

▲ Monoblock [SE4000DE / 5000DE] Amplifiers

RCA Connection



Power & Speaker Connection

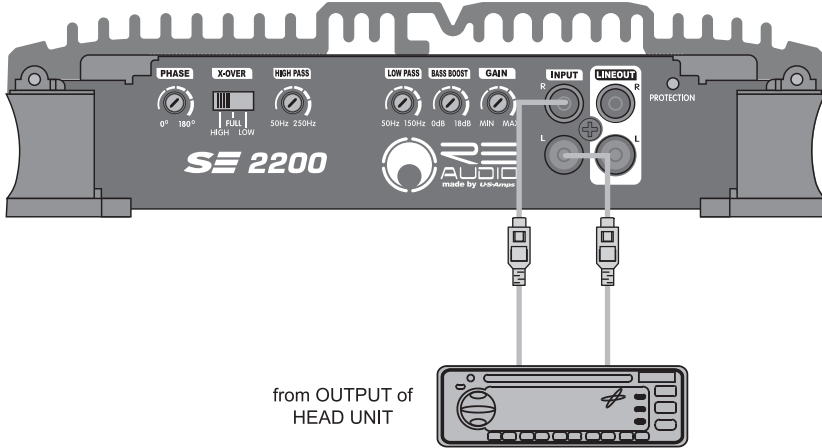


CONNECTIONS

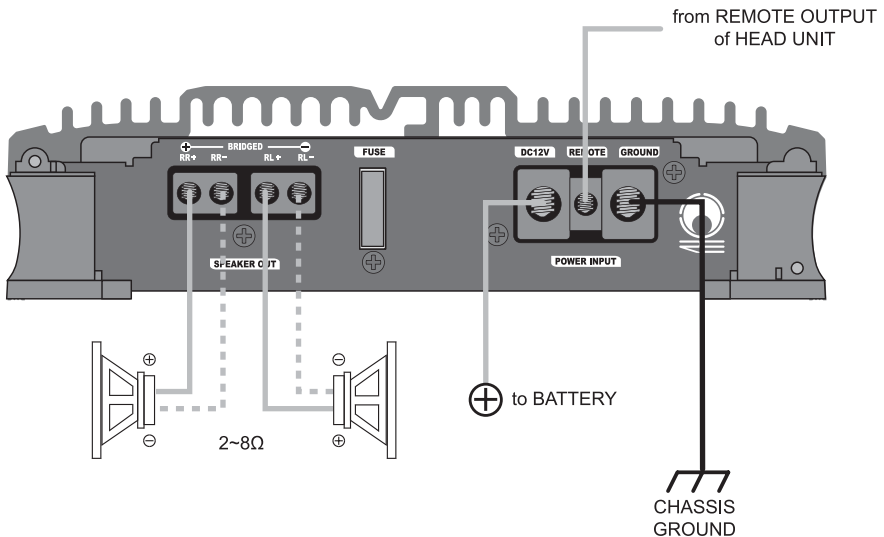
[Basic Wiring]

▲ 2-channel [SE2200] Amplifier

RCA Connection



Power & Speaker Connection

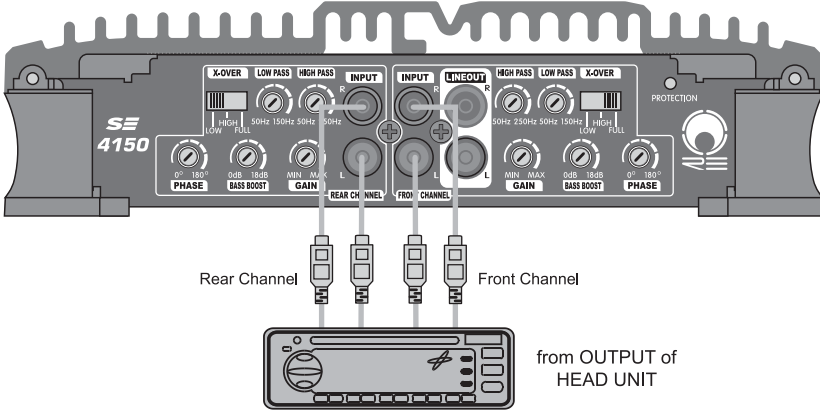


CONNECTIONS

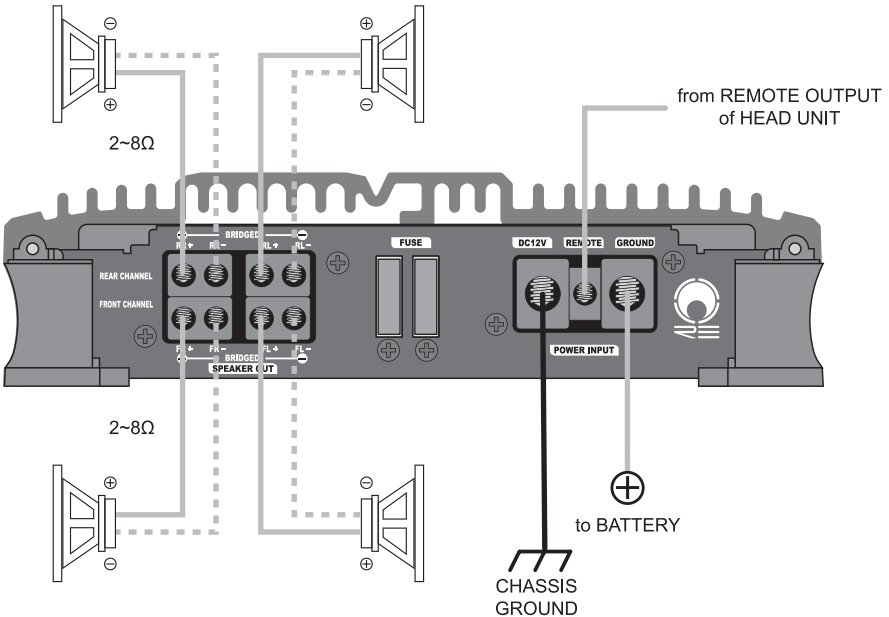
[Basic Wiring]

▲ 4-channel [SE4150] Amplifier

RCA Connection



Power & Speaker Connection

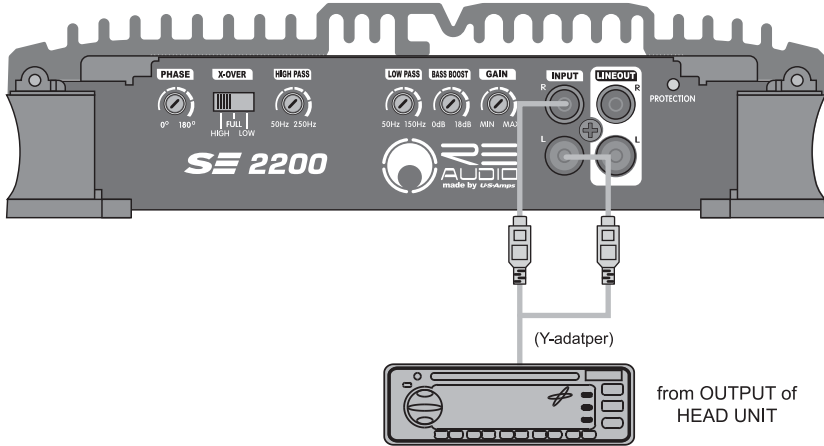


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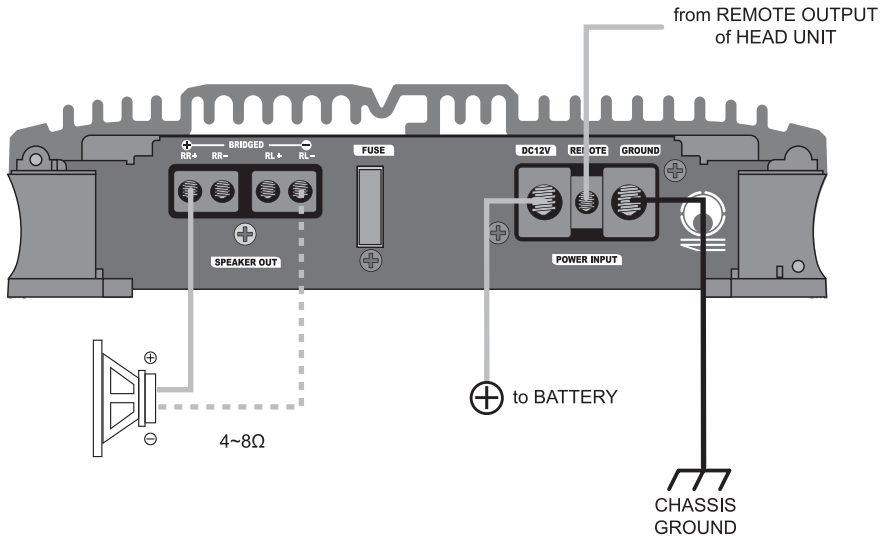
[Bridged Wiring]

▲ 2-channel [SE2200] Amplifier

RCA Connection



Power & Speaker Connection

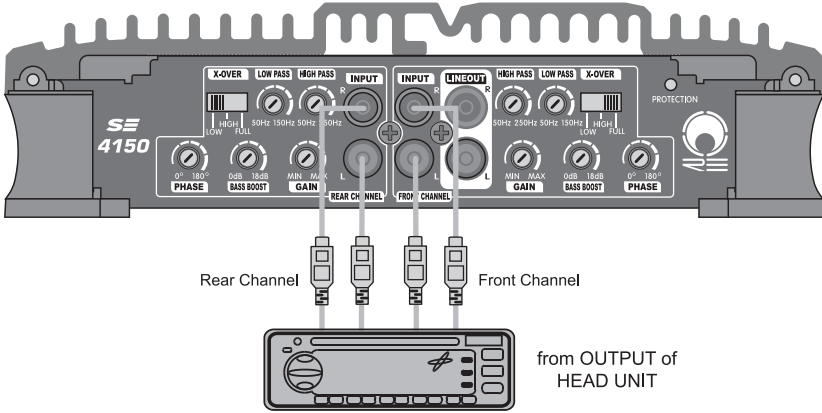


CONNECTIONS

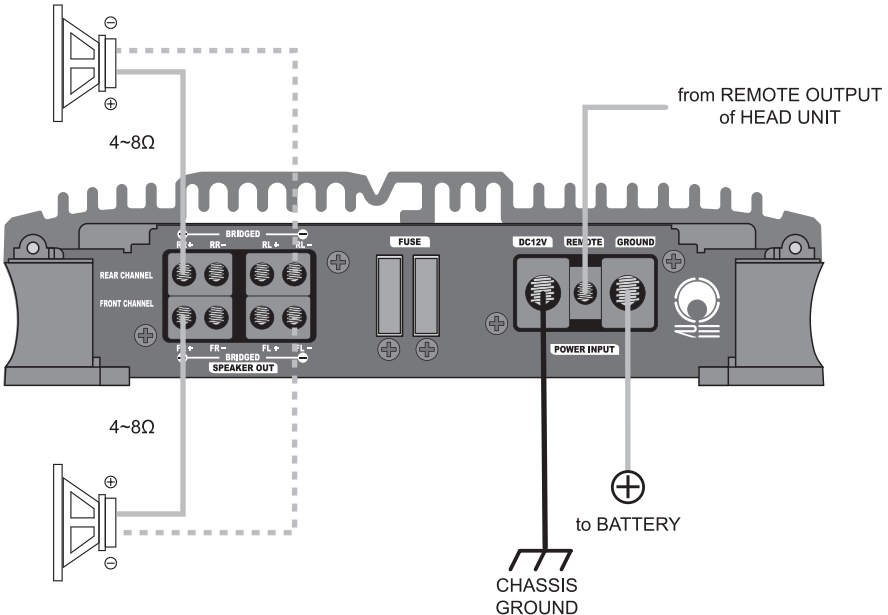
[Bridged Wiring]

▲ 4-channel [SE4150] Amplifier

RCA Connection



Power & Speaker Connection



SPECIFICATIONS

	Unit	2200	4150	4000DE	5000DE
Output Rating	4 Ohm RMS	150 x 2	100 x 4	1200 x 1	1700 x 1
	2 Ohm RMS	280 x 2	180 x 4	1700 x 1	2500 x 1
	1 Ohm RMS	-	-	2200 x 1	3200 x 1
	Bridged	500 x 1	300 x 2	-	-
	Dynamic	600	1600	4000	5000
Frequency Response	0, -3dB	20~20K	20~20K	20~150	20~150
Speaker Impedance		8, 4, 2	8, 4, 2	8, 4, 2, 1	8, 4, 2, 1
Input Sensitivity	Line(Low)	0.2~8	0.2~8	0.2~8	0.2~8
	Low pass	50 ~ 150	50 ~ 150	40 ~ 150	40 ~ 150
Filter Frequency	High pass	50 ~ 250	50 ~ 250	-	-
	Subsonic	Hz	-	20~50	20~50
	Bass Boost	0 ~ 18	0 ~ 18	0 ~ 18	0 ~ 18
Remote Bass Control		-	-	Yes	Yes
Damping Factor		< 200	< 200	< 100	< 100
		< 90	< 90	< 80	< 80
S/N Ratio		< 0.05	< 0.05	< 0.5	< 0.5
THD		11~16V DC	11~16V DC	11~16V DC	11~16V DC
Power Supply		310	340	360	500
Dimension (Length)	Width: 223 Height: 58	12.20	13.39	14.17	19.69
Dimension (Length)	Width: 8.78 HeightL 2.25	30A x 1	30A x 2	30A x 3	30A x 5
Fuse(s)					

TROUBLESHOOTING

Before removing your amplifier, refer to the list below and follow the suggested procedures. Always test the speakers and their wires first.

No Output

- Confirm that all terminal strip connections are secure and tight.
- Check both in-line and built-in fuses.
- Confirm that the audio signal source (car radio, equalizer, etc) is connected and is supplying output signal. To check if the amplifier is supplying signal, unplug the RCA cables from the signal source (but leave them plugged into the amp) and briefly tap the center pin of each of the disconnected RCA plugs with your finger. This should produce a noise (feedback) in your speakers.

Only one channel works

- Confirm that all terminal strip connections are secure and tight.
- Check the “BALANCE” control on the head unit (or other source) to verify that it is set to its mid point.
- If you are using the low-level RCA input, reverse the input plugs at the amplifier (switch the R with the L). If the channel which is silent switches to the other side, the problem is either in the head unit/other source or the connecting cables.

Weak output

- Re-adjust the Input Level Control to better suit the input signal.

Noise in the audio

- If the noise is a “whine” whose pitch follows the engine speed, confirm that the amplifier and any other signal sources (head unit, equalizer, etc) are properly grounded.
- If the noise is a “clicking” or “popping” noise whose rate follows the engine speed, this usually means that the vehicle is equipped with resistor spark plugs and wires, or that the ignition is in need of service.
- Check the routing of the speaker and input wires to make sure they are not adjacent to wires which interconnect with lights and other accessories.
- If the above steps fail to improve or clear noise interference, the system should be checked by a authorized RE Audio Dealer.

Limited Warranty:

RE Audio warrants all manufactured electronic products to be free from defects in material and workmanship for a period not to exceed ONE YEAR from the date of purchase.

IMPORTANT WARRANTY NOTICE: RE Audio will only warrant and service products displaying valid RE Audio serial numbers. **WARRANTY SERVICE WILL ONLY BE PERFORMED WHEN THE UNIT IS ACCOMPANIED BY A COPY OF THE ORIGINAL SALES RECEIPT FROM AN AUTHORIZED DEALER.** All product returned to RE Audio for service MUST be accompanied by a Return Authorization Number, issued by RE Audio in advance of shipment. The Return Authorization Number must be clearly and conspicuously displayed on the shipping carton or RE Audio will refuse delivery.

For Return Authorization Numbers, first call your RE Audio dealer you purchased the products from. The dealer will help you to obtain Return Authorization Numbers. This warranty extends only to the original purchaser and is not transferable. Defective equipment must be returned within the warranty period, freight prepaid, to the RE Audio Factory or an Authorized RE Audio Warranty Station.

This warranty covers only defects in materials and workmanship of manufactured electronic products (amplifiers). Incidents of misuse, abuse, neglect, or unauthorized modification will not be covered within the terms of this warranty.

RE Audio reserves the right to refuse warranty service under such conditions.

RE Audio WILL NOT BE RESPONSIBLE FOR ANY DAMAGES, WHETHER INCIDENTAL OR CONSEQUENTIAL, RELATED TO THE USE OF THIS OR ANY OTHER PRODUCT BEARING OR SOLD UNDER THE RE Audio BRAND NAME. USE THIS PRODUCT AT YOUR OWN RISK. IMPROPER USE OF THIS PRODUCT CAN RESULT IN PROPERTY DAMAGE, BODILY HARM, AND OR OTHER DAMAGE. RE Audio ASSUMES NO RESPONSIBILITY FOR YOUR HEALTH OR SAFETY.

