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User's Manual

2-CHANNEL MOSFET

POWER AMPLIFIERS

CER350.2

CER450.2

CER700.2

4-CHANNEL MOSFET

POWER AMPLIFIERS

CER250.4

CER350.4

CER450.4

MOSFET MONOBLOCK

POWER AMPLIFIERS

CER1200M

CER1700M

CER2100M

CER350.2 CER450.2 CER700.2
2-CHANNEL MOSFET POWER AMPLIFIERS

CER250.4 CER350.4 CER450.4
4-CHANNEL MOSFET POWER AMPLIFIERS

CER1200M CER1700M CER2100M
MOSFET MONOBLOCK POWER AMPLIFIERS

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Rev. 1/13



CER350.2 Two Channel
CER450.2 MOSFET Car Audio
CER700.2 Amplifiers

CER250.4 Four Channel
CER350.4 MOSFET Car Audio
CER450.4 Amplifiers

CER1200M MonoBlock
CER1700M MOSFET Car Audio
CER2100M Amplifier

Congratulations on your
purchase of a **BOSS**
CHAOS ERUPT Amplifier.

It has been designed, engineered
and manufactured to bring you
the highest level of performance
and quality, and will afford you
years of listening pleasure.

Thank you for making **BOSS**
your choice for car audio
entertainment!

USER'S MANUAL

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4CH and Bridged Modes
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Specifications



2-Channel MOSFET Amplifiers

MODEL	CER350.2	CER450.2	CER700.2
RMS Power Into 4 Ω	125 W x 2	150 W x 2	200 W x 2
MAX Power Into 2 Ω	350 W x 2	450 W x 2	700 W x 2
BRIDGED Power Into 4 Ω	700 W x 1	900 W x 1	1400 W x 1
Min. Speaker Impedance	2 Ω Stereo 4 Ω Mono Bridged	2 Ω Stereo 4 Ω Mono Bridged	2 Ω Stereo 4 Ω Mono Bridged
THD + N	$\leq 0.01\%$	$\leq 0.01\%$	$\leq 0.01\%$
Frequency Response	9 Hz - 50 KHz	9 Hz - 50 KHz	9 Hz - 50 KHz
S/N Ratio	102 dB	102 dB	102 dB
Channel Separation	90 dB	90 dB	90 dB
Low Pass Filter	35 Hz-160 Hz	35 Hz-160 Hz	35 Hz-160 Hz
High Pass Filter	fixed, 80 Hz	fixed, 80 Hz	fixed, 80 Hz
Bass Boost	Variable 0-+18 dB	Variable 0-+18 dB	Variable 0-+18 dB
Fuse Rating	35 A	40 A	25 A x 2
Dimensions(Length): (WxH)(11.22"x2.46"x...)	10.08"(L)	11.65"(L)	13.23"(L)

4-Channel MOSFET Amplifiers

MODEL	CER250.4	CER350.4	CER450.4	CER1200M	CER1700M	CER2100M
RMS Power Into 4 Ω	130 W x 4	170 W x 4	240 W x 4	375 W x 1	450 W x 1	700 W x 1
MAX Power Into 2 Ω	250 W x 4	350 W x 4	500 W x 4	1200 W x 1	1700 W x 1	2100 W x 1
BRIDGED Power Into 4 Ω	500 W x 2	700 W x 2	1000 W x 2	n/a	n/a	n/a
Min. Speaker Impedance	2 Ω Stereo 4 Ω Mono Bridged	2 Ω Stereo	2 Ω Stereo	2 Ω n/a	2 Ω n/a	2 Ω n/a
THD + N	$\leq 0.01\%$	$\leq 0.01\%$	$\leq 0.01\%$	$\leq 0.01\%$	$\leq 0.01\%$	$\leq 0.01\%$
Frequency Response	9 Hz - 50 KHz			9 Hz - 130 Hz	9 Hz - 130 Hz	9 Hz - 130 Hz
S/N Ratio	>102 dB	>102 dB	>102 dB	>102 dB	>102 dB	>102 dB
Channel Separation	90 dB	90 dB	90 dB	n/a	n/a	n/a
Low Pass Filter	35 Hz-160 Hz			40 Hz-130 Hz	40 Hz-130 Hz	40 Hz-130 Hz
High Pass Filter	fixed, 80 Hz	fixed, 80 Hz	fixed, 80 Hz	n/a	n/a	n/a
Bass Boost	Variable 0-+18 dB			0/+18 dB	0-+12 dB	0-+12 dB
Fuse Rating	25 A x 2	30 A x 2	35 A x 2	30 A	25 A x 2	30 A x 2
Dimensions(Length): (WxH)(11.22"x2.46"x...)	12.44"(L)	13.23"(L)	16.38"(L)	10.08"(L)	13.23"(L)	16.38"(L)

All specifications subject to change without notice.

Troubleshooting

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram on the previous pages. If problems persist, read the following troubleshooting tips which may help eliminate the problems.

SYMPTOM	POSSIBLE REMEDY
Amplifier will not power up.	<i>Check to make sure you have a good ground connection. Check that the Remote Input (Turn-On) has at least 3VDC. Check that there is battery power on the (+) terminal. Check that there is at least 12v. Check all fuses, replace if necessary. Make sure that the Protection LED is not illuminated. If it is lit, shut off the amplifier briefly, and then repower it.</i>
Protection LED comes on when amplifier is powered up.	<i>Check for short circuits on speaker leads. Turn down the volume control on the head unit to prevent overdriving. Remove speaker leads, and reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty and needs servicing.</i>
No output.	<i>Check that all fuses are OK. Check that amplifier is properly grounded. Check that the Remote Input (Turn-On) has at least 3VDC. Check that the RCA audio cables are plugged into the proper inputs. Check all speaker wiring.</i>
Low output.	<i>Reset the Level Control. Check the Crossover Control settings.</i>
Audio present in only one channel.	<i>Check the RCA interconnect cables. Check all speaker wiring.</i>
High hiss in the speakers.	<i>Disconnect all RCA inputs to the amplifiers. If the hiss disappears, then plug in the component driving the amplifier and unplug its inputs. If the hiss disappears at this point, go on until the faulty/noisy component is found. It is best to set the amplifier's input level control as low as possible. The best subjective signal-to-noise ratio is achieved in this manner. Try to set the head unit as high as possible (without distortion) and the amp input level as low as possible.</i>
Squealing noise from speakers.	<i>Check for improperly grounded RCA interconnects.</i>
Distorted sound.	<i>Check that the Input Level Control is set to match the signal level of the head unit. Always try to set the Input Level as low as possible. Check that all crossover frequencies are properly set. Check for short circuits on the speaker leads.</i>
Amplifier gets very hot.	<i>Check that the minimum speaker impedance for the amp model is correct. Check that there is good air circulation around the amp. In some applications, it may be necessary to add external cooling fan(s).</i>
Engine noise (static type)	<i>This is usually caused by poor quality RCA cables, which can pick up radiated noise. Use only the best quality cables, and route them away from power cables.</i>
Engine noise (alternator whine)	<i>Check that speaker leads are not shorted to the vehicle chassis. Check that the RCA grounds are not shorted to the vehicle chassis. Check that the head unit is properly grounded.</i>

Introduction

With the **BOSS** CHAOS ERUPT MOSFET amplifier series, we are introducing nine new amplifiers, all designed in the USA. This new series includes three monoblock amps, three 2-channel, three 4-channel amplifiers.

All CHAOS ERUPT models feature variable low pass and fixed high pass crossovers and variable input gain controls.

For further flexibility in the use of a subwoofer, 0-+18dB Bass Boost control has been included on all amplifiers. You can control the subwoofer level with the remote level control module.

BOSS AUDIO SYSTEMS understands that amplifiers are placed in many different kinds of installations, so we incorporated a very flexible system of controls in these amplifiers in order to help you integrate the amp into your system regardless of the nature of your input source.

What is included?

When first unpacking your new amplifier, please check first that the package contains all of the items below. If something is missing, contact the store where you purchased the amplifier.

- **CHAOS ERUPT Amplifier.**
- **Remote subwoofer control**
- **High input cable with connector**
- **Four (4) mounting screws**

Features

Your new CHAOS ERUPT amplifier features the following:

- **Class A-B operation**
- **Bridgeable outputs**
(except CER1200M, CER1700M, CER2100M)
- **MOSFET PWM (Pulse Width Modulated) Power Supply**
- **2 Ω stable stereo operation with output power increase**
- **Thermal and speaker short protection**
- **Soft turn-on circuit**
- **Remote turn-on/turn-off circuit**
- **Variable input gain control**
- **Variable low pass crossover(s)**
- **Fixed high pass crossover(s)**
- **Variable 0 to +18dB Bass Boost**
- **Nickel-plated RCA low level and high level inputs**
- **LED power and protection indicators**
- **Black anodized heatsink**
- **Remote subwoofer control**

About 2 Ω operation

Your CHAOS ERUPT amplifier has been designed to operate efficiently at loads down to 2 Ω . This means that you can install four 8 Ω speakers per channel, *when using parallel wiring.*

Doubling the number of woofers produces an acoustic coupling effect. This acoustic coupling effect increases the output by about 3dB for each doubling of the number of woofers.

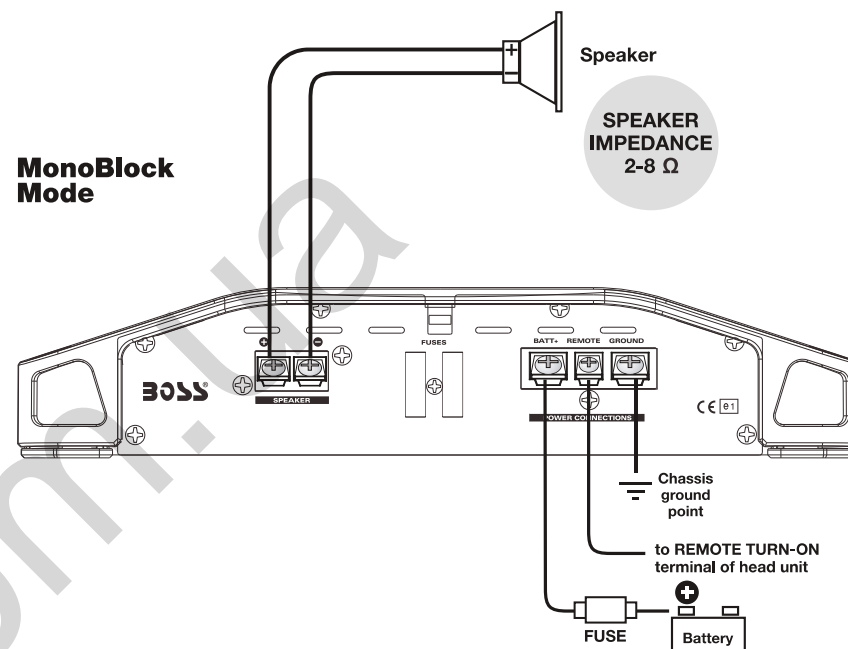
When operating at 2 Ω , the amplifiers will increase their output power by approximately 50%. *The current draw will also increase by about the same amount, so be sure you have enough current to run the amplifiers into a 2 Ω load.*

If you lack adequate current, your music reproduction will be distorted.

Power and Speaker Wiring

MonoBlock Mode

Monoblock Amplifiers CER1200M, CER1700M, and CER2100M

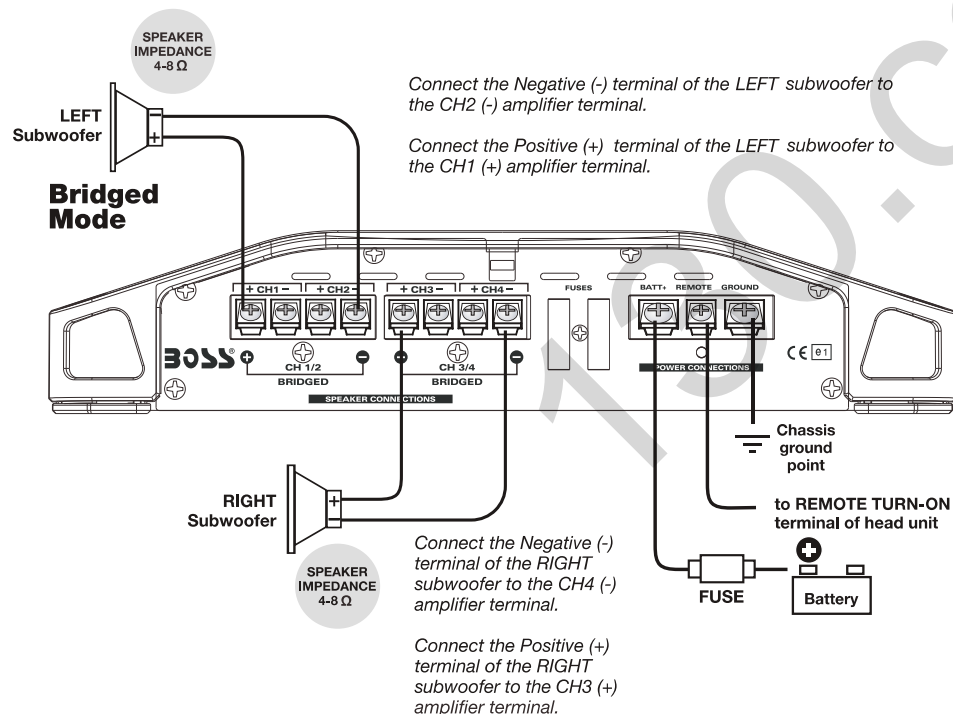
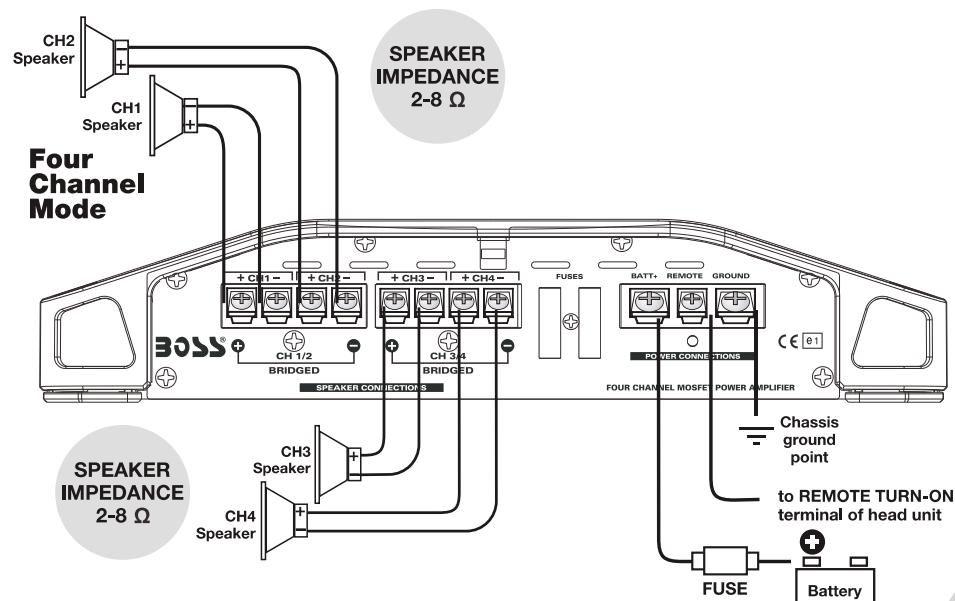


Power and Speaker Wiring

4 Channel and Bridged Modes

4-Channel Amplifiers

CER250.4, CER350.4, CER450.4



General precautions

Before installing and using your new **BOSS** amplifier, please become familiar with all the information contained in this manual.

Please keep this manual in a safe place for future reference.

- Do not open or attempt to repair this unit yourself. Dangerous high voltages are present which may result in electric shock. Refer any repairs to a qualified service technician.
- To avoid risk of electronic shock or damage to the amplifier, do not permit any of this equipment to become damp or wet from water or drinks. If this does occur, immediately unplug the power wires and send the amplifier to your local dealer or service center as soon as possible.
- If there is smoke or any peculiar odor present during use or if there is damage to any of the component enclosures, immediately unplug the power wire and send the amplifier to your local dealer or service center as soon as possible.

Installation precautions

Before you drill or cut any holes, investigate your car's layout very carefully. Take special care when you work near the gas tank, fuel lines, hydraulic lines and electrical wiring.

Never operate the amplifier when it is unmounted. Attach all audio system components securely to prevent damage, especially in an accident.

Before making or breaking power connections in your system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.

If you need to replace the power fuse, replace it only with a fuse identical to that supplied with the amplifier. Using a fuse of a different type or rating may result in damage to your audio system or your amplifier which is not covered by the manufacturer's warranty.

Mounting the amplifier

1. Find a suitable location in the vehicle in which to mount the amplifier.
2. Make sure there is sufficient air circulation around the intended mounting location.
3. Mark the location for the mounting hole screws by positioning the amplifier where you wish to install it. Use a scribe or mounting screw, inserted through each of the amp's mounting holes, to mark the mounting surface. If the mounting surface is carpeted, measure the hole centers and mark with a felt tip pen.
4. Drill pilot holes in the mounting surface for the mounting screws. Place the amplifier in position, and attach the amplifier to the mounting surface securely using screws.

SHOCK HAZARD! Do not open the case of this product. There are dangerous voltages present within the unit. There are no user-serviceable parts within the unit.

Connecting the amplifier

Before doing any wiring, look through this manual and identify the diagrams to follow for power, input and speaker connections for your particular installation. Be sure you understand all the connections before you proceed.

1. Connect the power ground terminal to the closest point on the chassis of the car. Keep this ground wire to less than 39" (100 cm) in length. Use 8 gauge (or heavier) wire.

2. Connect the remote terminal to the remote output of the head unit using 16 gauge (or heavier) wire.

3. Connect an empty fuse holder within 18" (45 cm) of the car battery, and run 8 gauge (or heavier) cable from this fuse to the amplifier location.

4. Check that the fuse holder is empty. Then connect the fuse holder to the "BATT+" connection on the amplifier.

5. If multiple amplifiers are being used in your system, either:

- Run a separate pair of cables from the battery and a chassis ground point to each amplifier. Each (+) cable must have its own inline fuse.

-or-

- Run a #4 cable from the fuse holder at the battery to a distribution block at or near the amplifier's location. Then run separate cables from the amplifier to this distribution block and to independent chassis ground points.

6. Connect all line inputs and outputs (if used) using high-quality cables. Connect all speakers, following the diagrams in this manual. Be sure to observe proper polarity to avoid audio phase problems.

7. Insert fuse(s) into the battery fuse holder(s).

8. Recheck all connections before powering up the amplifier.

9. Set all level controls to minimum position, and set all crossover controls/switches to the desired frequency points.

10. Power up the head unit and the amplifier. Then set the volume control on the head unit to about 3/4 volume, and adjust the amplifier's input level control(s) to just below the level of distortion.

11. Further fine tuning of the various controls may be necessary to obtain best results.

Don't misuse the level control!

Do not mistake the input level control for a volume control! It is designed **ONLY** to match the output level of your audio source to the input level of your amplifier.

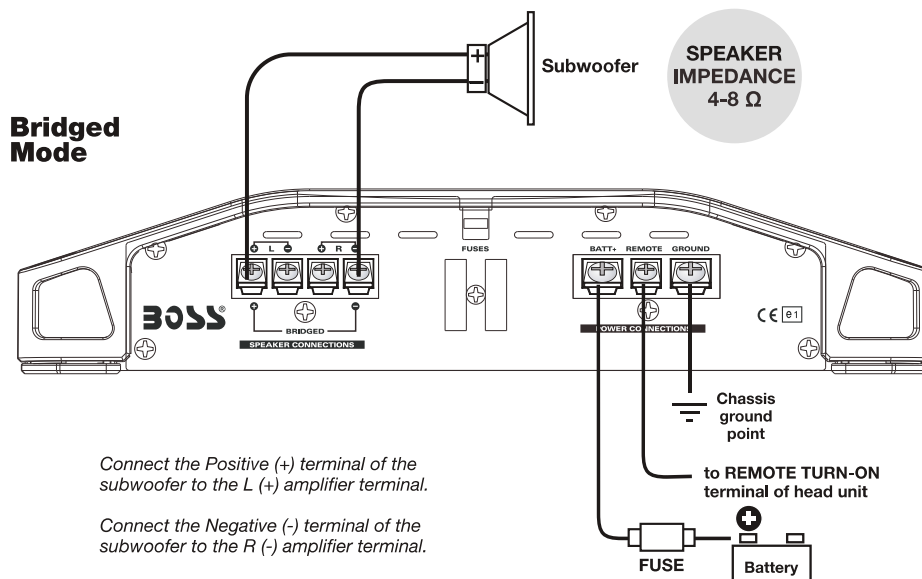
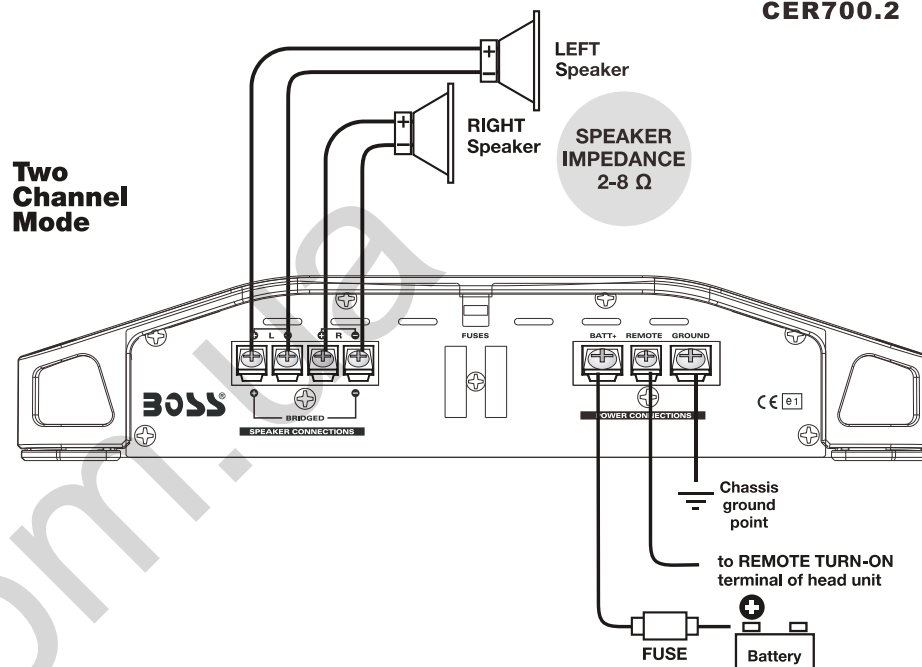
Do not adjust this input level to maximum unless your input level requires it.

Ignoring these instructions will result in an input overload to the amplifier, and excessive audio distortion. It can also cause the protection circuit to engage.

Power and Speaker Wiring

2 Channel and Bridged Modes

2-Channel Amplifiers CER350.2, CER450.2 CER700.2



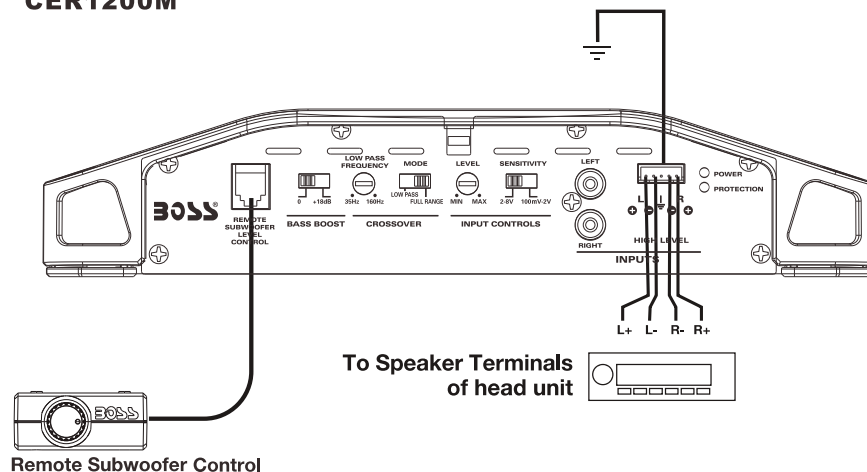
High Level Input Wiring

The high level input(s) should only be used when your head unit lacks RCA outputs. If the RCA outputs are not present, connect the speaker outputs from the receiver to the high level input connector of the amplifier. Be sure to observe polarity to avoid audio phase problems.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

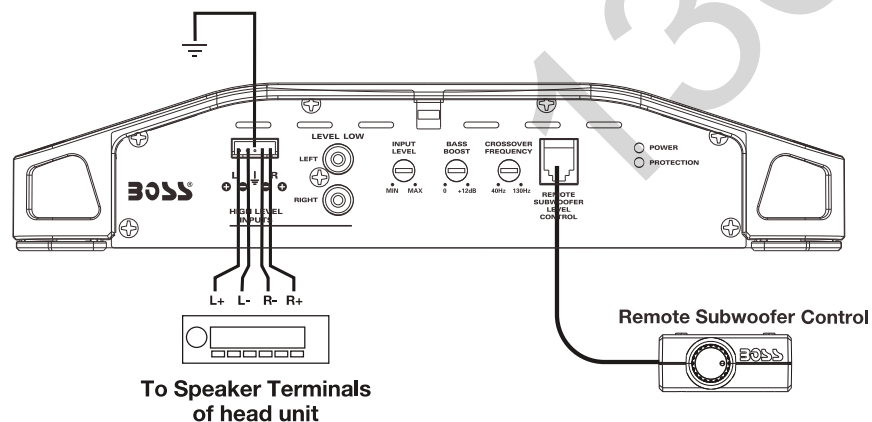
MonoBlock Amplifier

CER1200M



MonoBlock Amplifiers

CER1700M, CER2100M



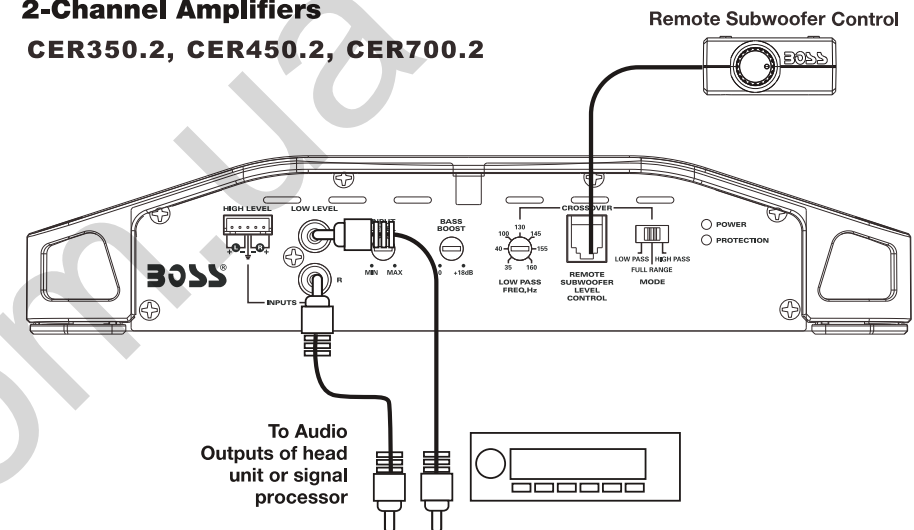
Low Level Input Wiring

Low-level (RCA) input wiring is preferred for best audio performance. Always use a high-quality RCA cable for best audio performance.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

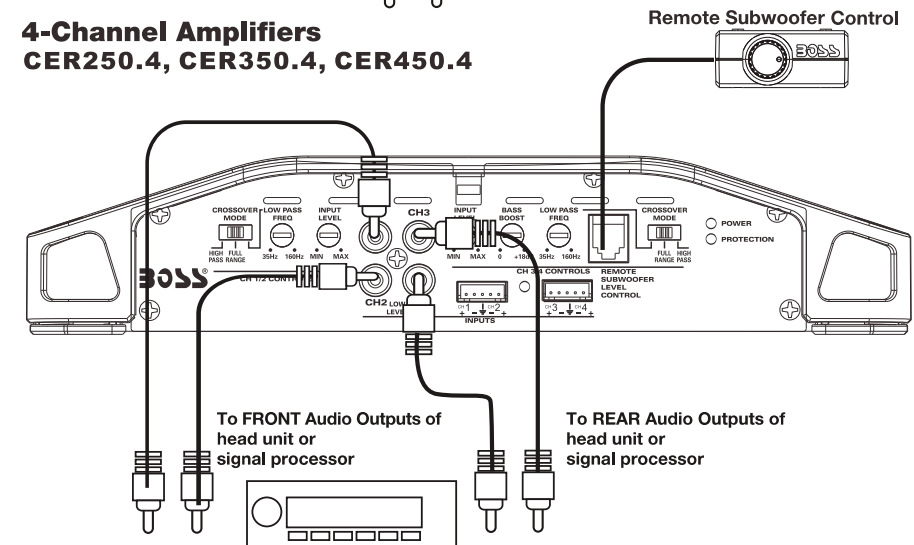
2-Channel Amplifiers

CER350.2, CER450.2, CER700.2



4-Channel Amplifiers

CER250.4, CER350.4, CER450.4

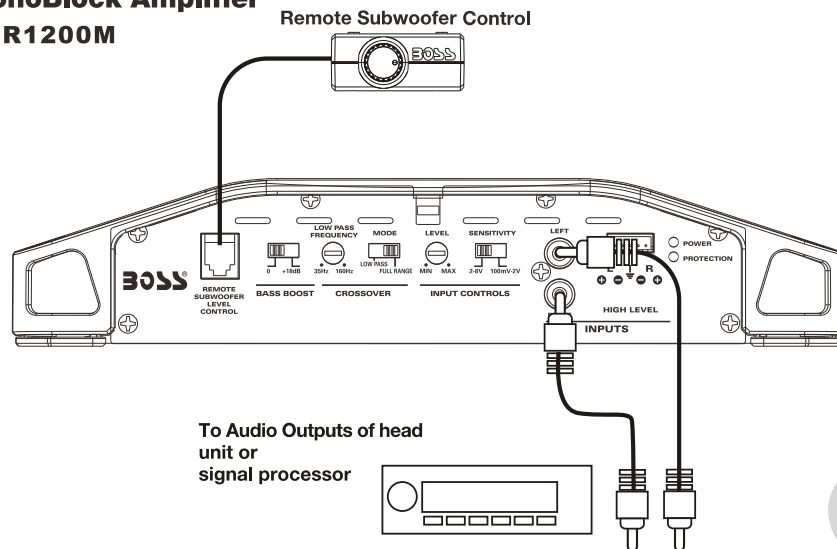


Low Level Input Wiring

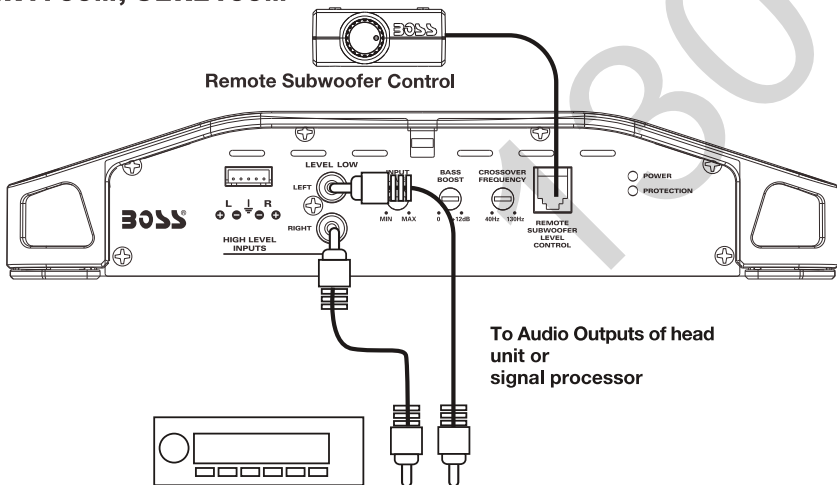
Low-level (RCA) input wiring is preferred for best audio performance. Always use a high-quality RCA cable for best audio performance.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

MonoBlock Amplifier CER1200M



MonoBlock Amplifiers CER1700M, CER2100M

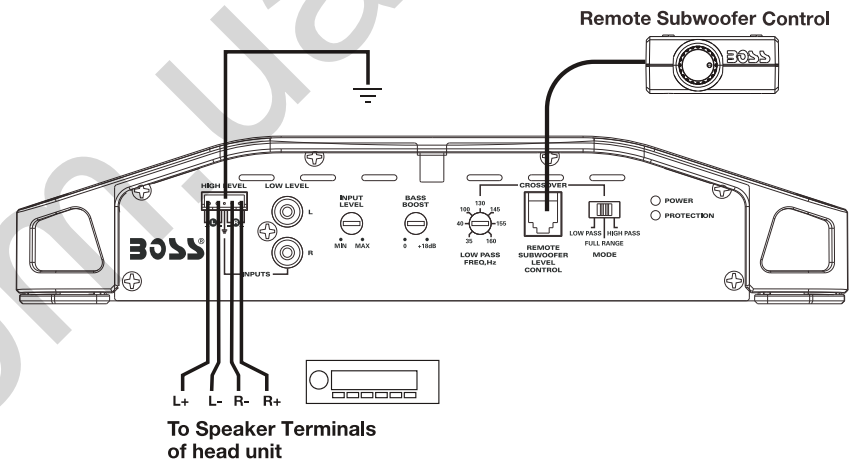


High Level Input Wiring

The high level input(s) should only be used when your head unit lacks RCA outputs. If the RCA outputs are not present, connect the speaker outputs from the receiver to the high level input connector of the amplifier. Be sure to observe polarity to avoid audio phase problems.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

2-Channel Amplifiers CER350.2, CER450.2, CER700.2



4-Channel Amplifiers CER250.4, CER350.4, CER450.4

