



OWNER'S MANUAL

4-CH Bridgeable Amplifier

Please read this manual carefully before operating your set and retain it for future reference.

LA408AB



www.lg.com.mx

Safety Information

Precautions

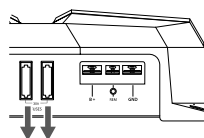
- This unit is designed for negative ground 12 V DC operation only.
- Use speakers with an impedance of 2 to 8 Ω (4 to 8 Ω when used as a bridging amplifier).
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers.
- Avoid installing the unit in areas subject to:
 - high temperatures such as from direct sunlight or hot air from the heater
 - rain or moisture
 - dust or dirt.
- If your car is parked in direct sunlight and there is a considerable rise in temperature inside the car, allow the unit to cool down before use.
- When installing the unit horizontally, be sure not to cover the fins with the floor carpet etc.
- If this unit is placed too close to the car audio unit or antenna, interference may occur. In this case, relocate the amplifier away from the car audio unit or antenna.
- If no power is being supplied to the car audio unit, check the connections.
- This power amplifier employs a protection circuit* to protect the transistors and speakers if the amplifier malfunctions. Do not attempt to test the protection circuits by covering the heat sink or connecting improper loads.
- Do not use the unit on a weak battery as its optimum performance depends on a good power supply.
- For safety reasons, keep your car audio unit volume moderate so that you can still hear sounds outside your car.

Fuse Replacement

If the fuse blows, check the power connection and replace both the fuses. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest dealer.

Warnings

When replacing the fuse, be sure to use one matching the amperage stated above the fuse holder. Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.



* Protection circuit

This amplifier is provided with a protection circuit that operates in the following cases:

- when the unit is overheated
- when a DC current is generated
- when the speaker terminals are short-circuited.

The color of the POWER/PROTECT indicator will change from blue to red, and the unit will shut down. If this happens, turn off the connected equipment, take out the cassette tape or disc, and determine the cause of the malfunction. If the amplifier has overheated, wait until the unit cools down before use.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest dealer.

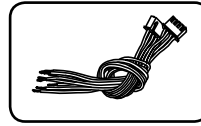
Features

- Maximum power output of 150 W per channel (4) (at 4 Ω).
- This unit can be used as a bridging amplifier with a maximum output of 400 W.
- Built-in HPF (High-Pass Filter), LPF (Low-Pass Filter).
- Protection circuit and indicator provided.
- Direct connection can be made with the speaker output of your car audio unit if it is not equipped with the line output (High level input connection)
- Hi-level Sensing Power On feature allows unit to be activated without need for REMOTE connection.
- Pulse power supply* for stable and regulated output power.

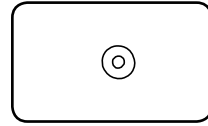
* Pulse power supply

This unit has a built-in power regulator which converts the power supplied by the 12 V DC car battery into high speed pulses using a semiconductor switch. These pulses are stepped up by the built-in pulse transformer and separated into both positive and negative power supplies before being converted into direct current again. This is to regulate fluctuating voltage from the car battery. This light weight power supply system provides a highly efficient power supply with a low impedance output.

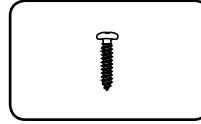
Supplied Accessories



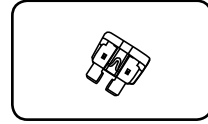
High input cable (2)



Ring rubber cushion (4)

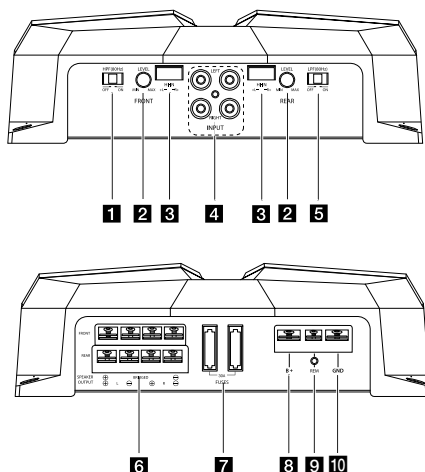


Screw (4)



Fuse 30A (2)

Location and function of controls



1 HPF (High-Pass Filter) select switch

When the HPF switch is set to ON, the High-pass filter (80 Hz) is effective.

2 LEVEL adjustment control

The input level can be adjusted with this control. Turn it in the clockwise direction when the output level of the car audio unit seems low.

3 HI-IN (+ L -, - R +) jacks

4 RCA input jacks

5 LPF (Low-Pass Filter) select switch

When the LPF switch is set to ON, the Low-pass filter (80 Hz) is effective.

6 Speakers output terminals

7 Fuses (30 A)

8 Battery terminal (B +)

After completing all other amplifier connections, finally connect the battery wire terminal the amplifier to the positive (+) battery terminal.

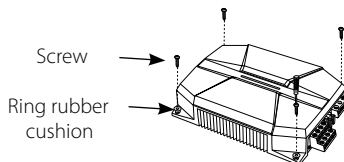
9 System remote control terminal (REM)

10 Ground terminal (GND)

Installation

Before Installation

- Mount the unit either inside the trunk or under a seat.
- Choose the mounting location carefully so the unit will not interfere with the normal movements of the driver and it will not be exposed to direct sunlight or hot air from the heater.
- Do not install the unit under the floor carpet, where the heat dissipation from the unit will be considerably impaired.
- **Mount the unit as illustrated.**

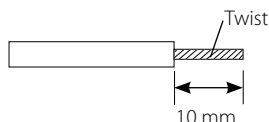


⚠ Cautions

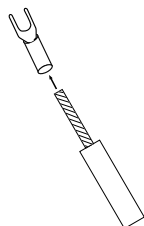
- Before making any connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Be sure to use speakers with an adequate power rating. If you use small capacity speakers, they may be damaged.
- Do not connect the \ominus terminal of the speaker system to the car chassis, and do not connect the \ominus terminal of the right speaker with that of the left speaker.
- Install the input and output cords away from the power supply wire as running them close together can generate some interference noise.
- This unit is a high powered amplifier. Therefore, it may not perform to its full potential if used with the speaker cords supplied with the car.
- If your car is equipped with a computer system for navigation or some other purpose, do not remove the ground wire from the car battery. If you disconnect the wire, the computer memory may be erased. To avoid short circuits when making connections, disconnect the + 12 V power supply wire until all the other wires have been connected.

Making the Terminal Connections

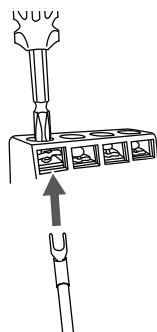
1. Expose the end of the wire using nippers or a cutter by about 10 mm and twist.



2. Attach ring lugs to wire ends.



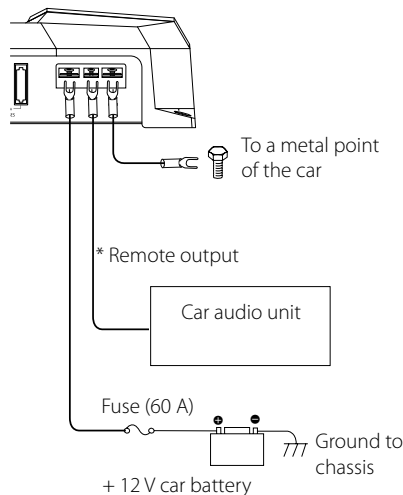
3. Loosen the screw by using the driver. Connect the wires, then tighten the screw.



! Note

When you tighten the screw, be careful not to apply too much torque as doing so may damage the screw.

Power Connection Wires (not supplied)



* If you have the factory original or some other car audio unit without a remote output for the amplifier, connect the system remote control terminal (REM) to the power supply.

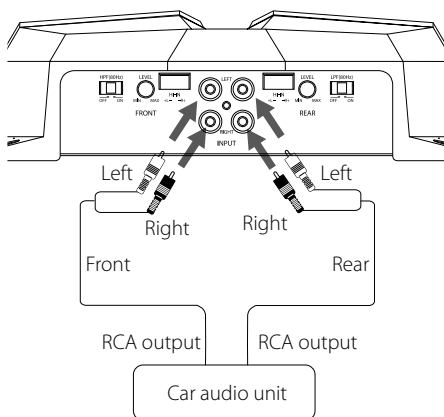
Notes on the power supply

- Connect the + 12 V power supply wire only after all the other wires have been connected.
- Be sure to connect the ground wire of the unit securely to a metal point of the car. A loose connection may cause a malfunction of the amplifier.
- Be sure to connect the remote control wire of the car audio unit to the remote terminal.
- When using a car audio unit without a remote output on the amplifier, connect the system remote control terminal (REM) to the power supply.
- Use a power supply wire with a fuse attached (60 A).
- Make sure that the vehicle's battery wires connected to the vehicle (ground to chassis) are of a wire gauge at least equal to that of the main power wire connected from the battery to the amplifier.

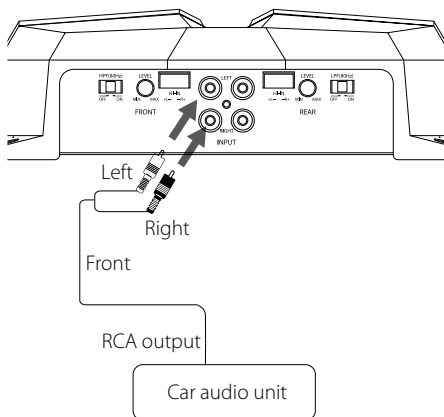
RCA Input Connections

Connect the car stereo RCA output jack and the RCA input jack of the amplifier.

4-channel output

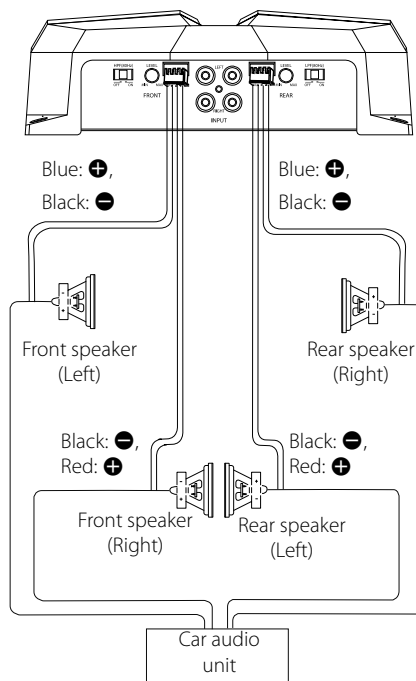


2-channel output



High Level Input Connection

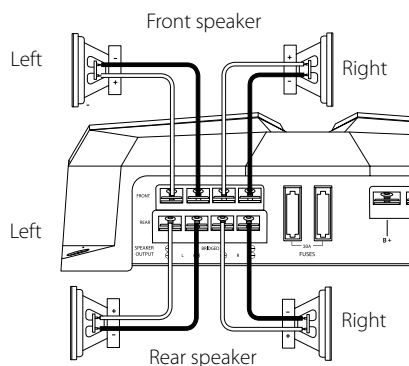
1. Connect the high input cables to the HI-IN (+ L -, - R +) jacks.
2. Connect the high input cables and the speaker cables.



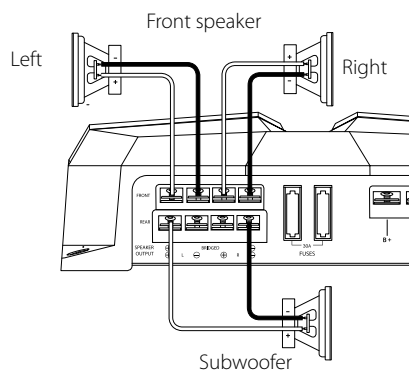
Speaker Connections

The unit can be set up for stereo 4-channel or 3-channel operation.

4-channel speaker system



3-channel speaker system



Specifications

Maximum output power	800 W
RMS output power (4 Ω)	70 W X 4 CH (1 kHz @ THD 0.1 %)
RMS output power (2 Ω)	100 W X 4 CH (1 kHz @ THD 0.1 %)
Mono Bridge at 4 Ω	200 W X 2 CH (1 kHz @ THD 0.1 %)
Output power circuit	Class AB
Operating voltage	10.5 V - 16 V
Frequency response	10 - 50 kHz
S/N ratio	> 90 dB
THD (A-Weight)	< 0.05 %
Channel separation	> 50 dB
Variable input gain control	0.3 V - 9 V
Hi input	0.6 V - 18 V
Input impedance	22 k Ω
LED	Power/Protect
Protection (Short, Thermal, Offset)	Yes
Dimension (W X H X D)	304 X 65 X 203 mm

Troubleshooting

The following checklist will assist in the correction of most problems which you may encounter with your unit.

Before going through the checklist below, refer to the connection and operating procedures.

Symptom	Cause	Solution
The POWER/PROTECT indicator or illumination does not light up.	The fuse is blown.	Replace both the fuses with a new one.
	The ground wire is not securely connected.	Fasten the ground wire securely to a metal point of the car.
	The voltage going into the remote terminal is too low.	<ul style="list-style-type: none"> The connected car audio unit is not turned on. Turn on the car audio unit. The system employs too many amplifiers. Use a relay.
	Check the battery voltage (10.5 – 16 V).	
The POWER/PROTECT indicator will change from green to red.	Turn off the power switch. The speaker outputs are shorted.	Rectify the cause of the short.
	Turn off the power switch. Make sure the speaker cord and ground wire are securely connected.	
<ul style="list-style-type: none"> The unit becomes abnormally hot. The sound is interrupted. 	The unit heats up abnormally.	Use speakers with suitable impedance. (2 – 8 Ω)
	Make sure to place the unit in a well ventilated location. The thermal protect is activated.	Reduce the volume.
Alternator noise is heard.	The power connecting wires are installed too close to the RCA pin cords.	Keep the power connecting wires away from the RCA pin cords.
	The ground wire is not securely connected.	Fasten the ground wire securely to a metal point of the car.
	Negative speaker wire is touching the car chassis.	Keep the wire away from the car chassis.
The sound is too low.	The LEVEL adjustment control is not appropriate.	Turn the LEVEL adjustment control in the clockwise direction.

Design and specifications are subject to change without notice.





Atención al Cliente

País	Teléfono	País	Teléfono
México	01-800-347-1919	Costa Rica	1-800-507-5454
Colombia	01-8000-910683	Rep. Dominicana	00-800-751-5454
Chile	800-26-1054	Guatemala	1-801-422-5454
Ecuador	1-800-545454	El Salvador	00-800-4309
Venezuela	800-5424477	Cuba	204-3333
Panamá	800-5454	Miami, USA	1-305-477-1882
Perú	0-800-1-2424	Bolivia, La Paz	800-100-545
Puerto Rico	001-800-510-2564	Nicaragua	001-800-507-0007
Argentina	0800-888-5454 (Capital y GBA) / 0810-555-5454 (Interior del país)		


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