

User Guide | Guide de l'utilisateur | Guía del Usuario

INSIGNIA™

Premium Car Sound System – Amplifier

Premium Car Sound System – Amplifier(French)

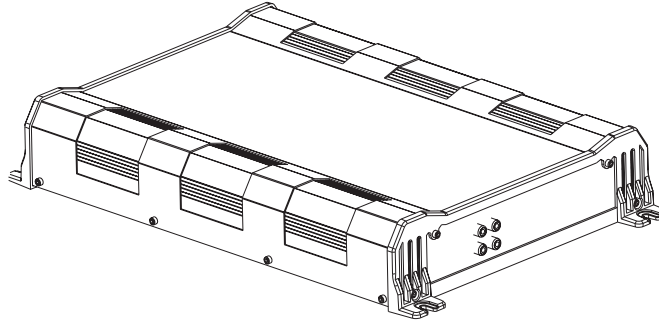
Premium Car Sound System – Amplifier(Spanish)

IS - PCSS101



Welcome



Congratulations on your purchase of a high-quality Insignia product. Your PY-2E10 represents the state of the art in car power amplifier design, and is designed for reliable and trouble-free performance.



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Safety information

- Warning**  Exercise extreme caution when you operate the amplifier near an open gasoline tank or electrical wires. Failure to comply with this warning could result in injury or death.
- Caution**  Speaker damage can result from high volume levels. Protect connecting wires and parts to avoid damage or short circuits. To protect the amplifier unit, make sure the power connection from the positive (+) battery terminal to the amplifier is correctly fused. The sound system must be turned off before checking the amplifier. When you replace an amplifier fuse, make sure you use the same fuse type and capacity (20A).

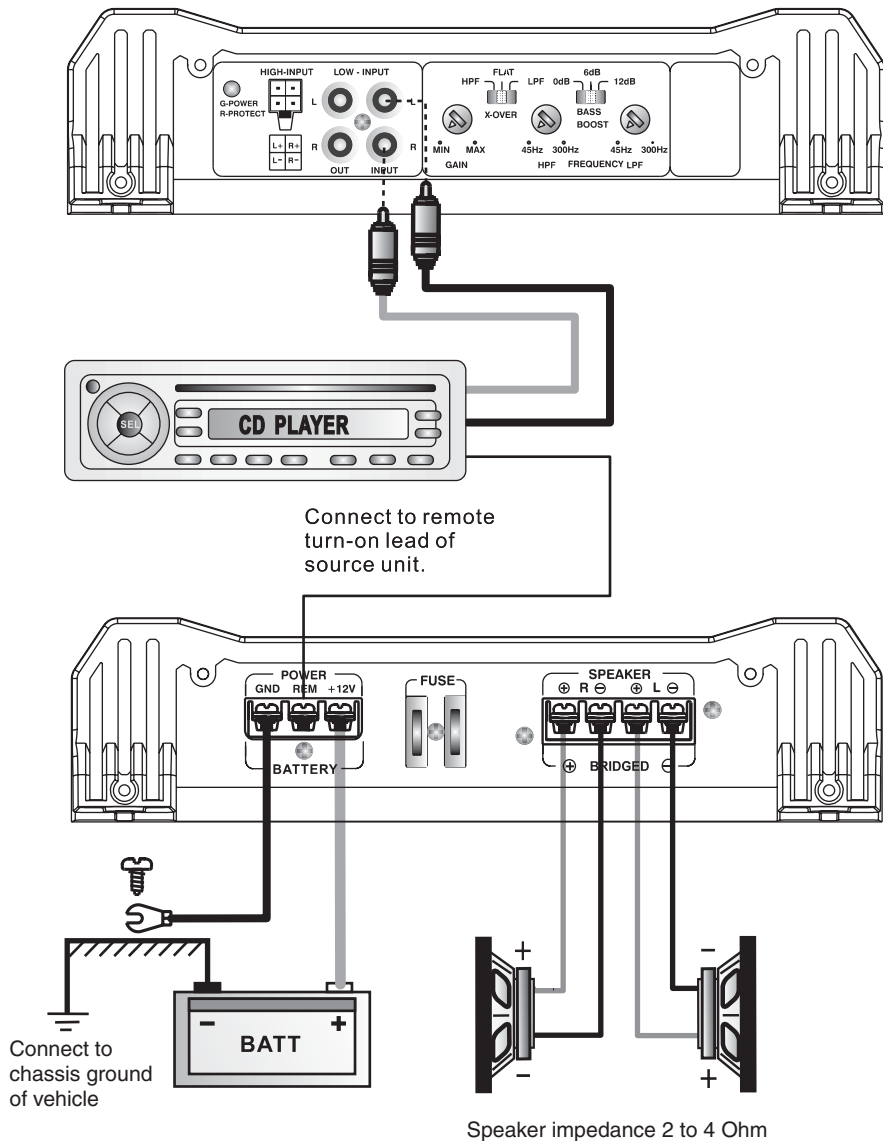
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PY-2E10 Car Power Amplifier

Setting up your amplifier

Wiring diagrams

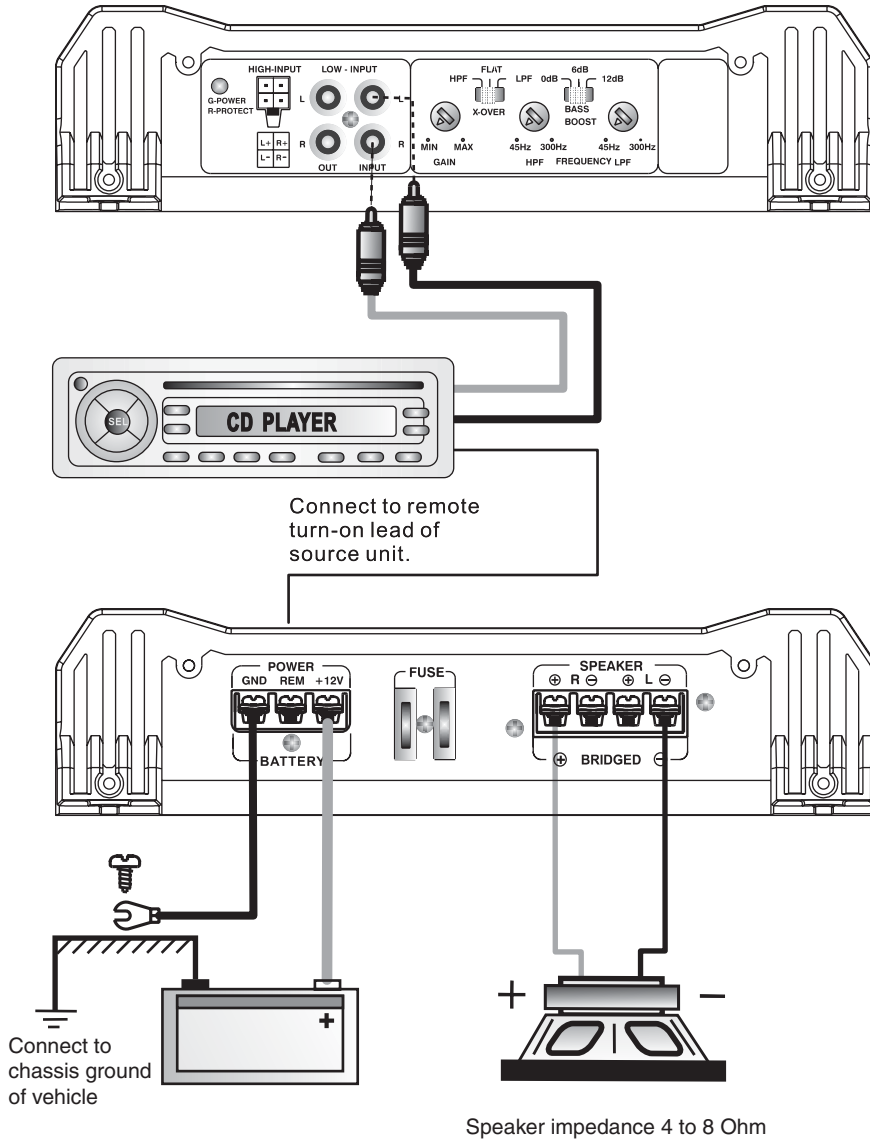
2-CHANNEL STEREO CONFIGURATION



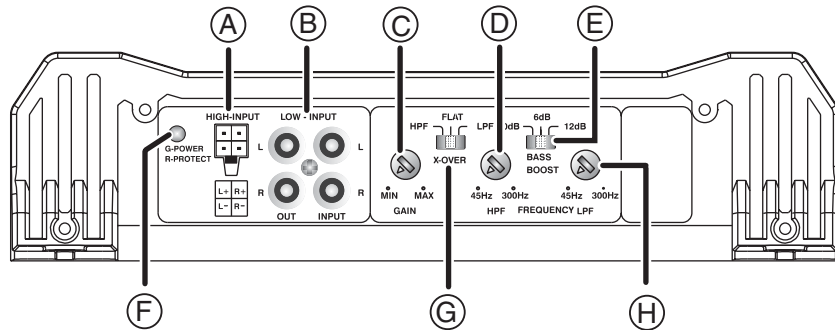
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BRIDGED-MODE CONFIGURATION



Using your amplifier
Functions and controls

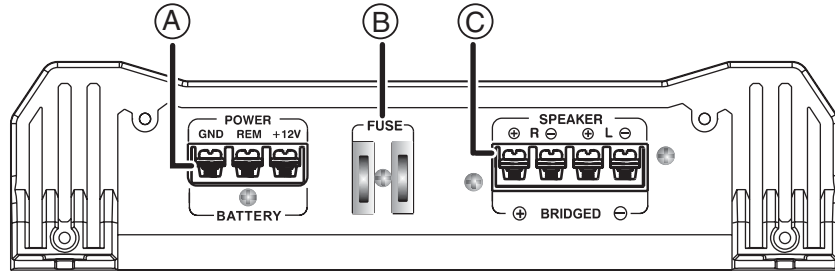


Item	Name	Function or Control
A	HIGH - INPUT	Left and right high level inputs to the amplifier. Connect high level inputs here.
B	LOW - INPUT	Left and right channel inputs to the amplifier system. Connect preamplifier outputs from a source (such as a head unit, CD player, or DAT) or from an external electronic crossover here.
C	GAIN	Set for volume range adjustment.
D	HPF	Set for High Pass Filter frequency (45 Hz to 300 Hz).
E	BASS BOOST	Set for amount of bass boost required (0dB, +6dB, or +12dB).
F	Indicator LED	Green LED lit—Amplifier is on and functioning correctly. Red LED lit—Amplifier is in self-protect mode.
G	X-OVER	Switch for setting high pass filter (HPF), full pass filter (FULL), or Low Pass Filter (LPF).
H	LPF	Set for Low Pass Filter frequency (45 Hz to 300 Hz).

PY-2E10 Car Power Amplifier



Electrical connections



Item	Name	Function or Control
A	POWER/ BATTERY	<ul style="list-style-type: none"> • +12 Volts - Connect to positive (+) battery terminal. • REM - Connect to the Remote cable from the signal source to control amplifier switching. Applied voltage must be between 7 and 15VDC. • GND - Connect to good ground, such as the car frame or grounded metal body. Keep ground cable length as short as possible.
B	FUSE	Amplifier protection fuse. Replace with the same type and capacity.
C	SPEAKER/ BRIDGED	Connect the speakers to these terminals.



Specifications

RMS power @13.8VDC

Power @ 4 Ohms.....	120W × 2
Power @ 2 Ohms.....	200W × 2
Bridged power @ 4 Ohms	360W × 2

Minimum speaker impedance..... 2 Ohms

THD distortion..... 0.08%

IMD distortion..... 0.08%

Frequency response..... 20 Hz to 20 KHz

Input sensitivity..... 200mV to 6V

Input impedance..... 15K

Signal-to-noise ratio..... 90dB

Channel separation..... 50dB

Remote bass control..... 0dB to +12dB

Crossover network

Low pass filter..... 45 Hz to 300 Hz

Bass boost..... 0dB to +12dB

High pass filter..... 45 Hz to 300 Hz

Fuse rating..... 20A × 2

Size L × W × H..... 15.67 × 10.16 × 2.56 inches
..... (398 × 258 × 65 mm)

Troubleshooting

Before removing your amplifier, locate the problem in the following table. Always test the speakers and speaker wires before troubleshooting the amplifier.

Symptom	Solution
The amplifier will not turn on.	<ul style="list-style-type: none"> • Make sure that the amplifier has a good ground connection. • Make sure that the power at the remote DC terminal is at least 7VDC. • Make sure that there is battery power at the positive (+) terminal. • Make sure that all fuses are good. • Make sure that the indicator LED is not red. If the indicator LED is red, turn off the amplifier briefly, then turn it back on.

Symptom	Solution
A high hiss or engine noise (alternator whine) is audible in the speakers	<p>Disconnect all RCA inputs to the amplifier. If the hiss or noise goes away, plug in the component driving the amplifier and unplug its inputs. If the noise goes away, start plugging in the inputs until the noisy component is found.</p> <p>We recommend that you set the amplifier input sensitivity as low as possible. This will result in the best possible S/N ratio. Also, try to drive as high a signal level as possible from the head unit.</p>
The indicator LED turns red when the amplifier is turned on.	<ul style="list-style-type: none"> • Make sure that there are no shorts on the speaker leads. • Make sure that the volume control on the head unit is turned down low. • Remove the speaker leads and reset the amplifier. If the indicator LED is still red, the amplifier is faulty. <p>Note: To protect the amplifier from damage, it will shut down automatically when its temperature reaches 176°F (80°C).</p>
The amplifier gets very hot.	<ul style="list-style-type: none"> • Make sure that the minimum speaker impedance is correct. • Make sure that there are no speaker shorts. • Make sure that there is good airflow around the amplifier. In some situations, a fan may be required for proper cooling of the unit.
The sound is distorted.	<ul style="list-style-type: none"> • Make sure that the level control(s) is set to match the signal level of the head unit. • Make sure that the crossover frequencies have been correctly set. • Make sure that there are no shorts on the speaker leads.
There is a high squeal noise coming from the speakers.	<p>Make sure that the RCA patch cords are correctly grounded.</p>

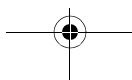
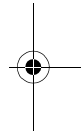
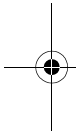
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