



Performance Installation Guide

Primo SL Active Subwoofer Enclosure

PSL8AE
PSL10AE

Dear Customer,

For nearly five decades, Morel has been dedicated to engineering loudspeakers that redefine what's possible in mobile audio. The Primo SL Active Loaded Enclosure continues this tradition, delivering our signature bass performance in a compact, ready-to-install solution.

Featuring our new shallow-mount subwoofer and an integrated high-efficiency amplifier, this system is engineered as a perfectly matched package. Its optimized enclosure, advanced suspension, and efficient motor design work together to produce deep, controlled, musical bass—all while fitting easily into tight installation spaces.

We hope your Primo SL Active Loaded Enclosure provides years of enjoyment, enhancing every drive with smooth, powerful low-frequency performance.

If you need help with installation or system planning, your local authorized Morel retailer is ready to assist. You can also reach our support team at:

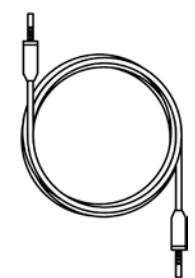
info@morelhifi.com

info@morelamerica.com

Bring Morel's legendary bass performance to any vehicle—beautifully, effortlessly, and with the confidence that comes from world-class engineering.



Box Contents



1x
Remote
Harness



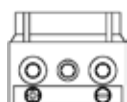
2x
25A ATC
Fuse



1x
2mm Hex
Wrench



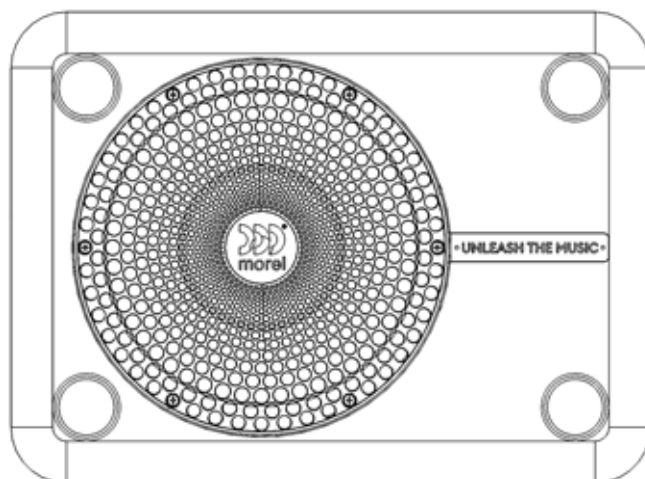
1x
Remote Bass
Controller



1x
Power
Connector

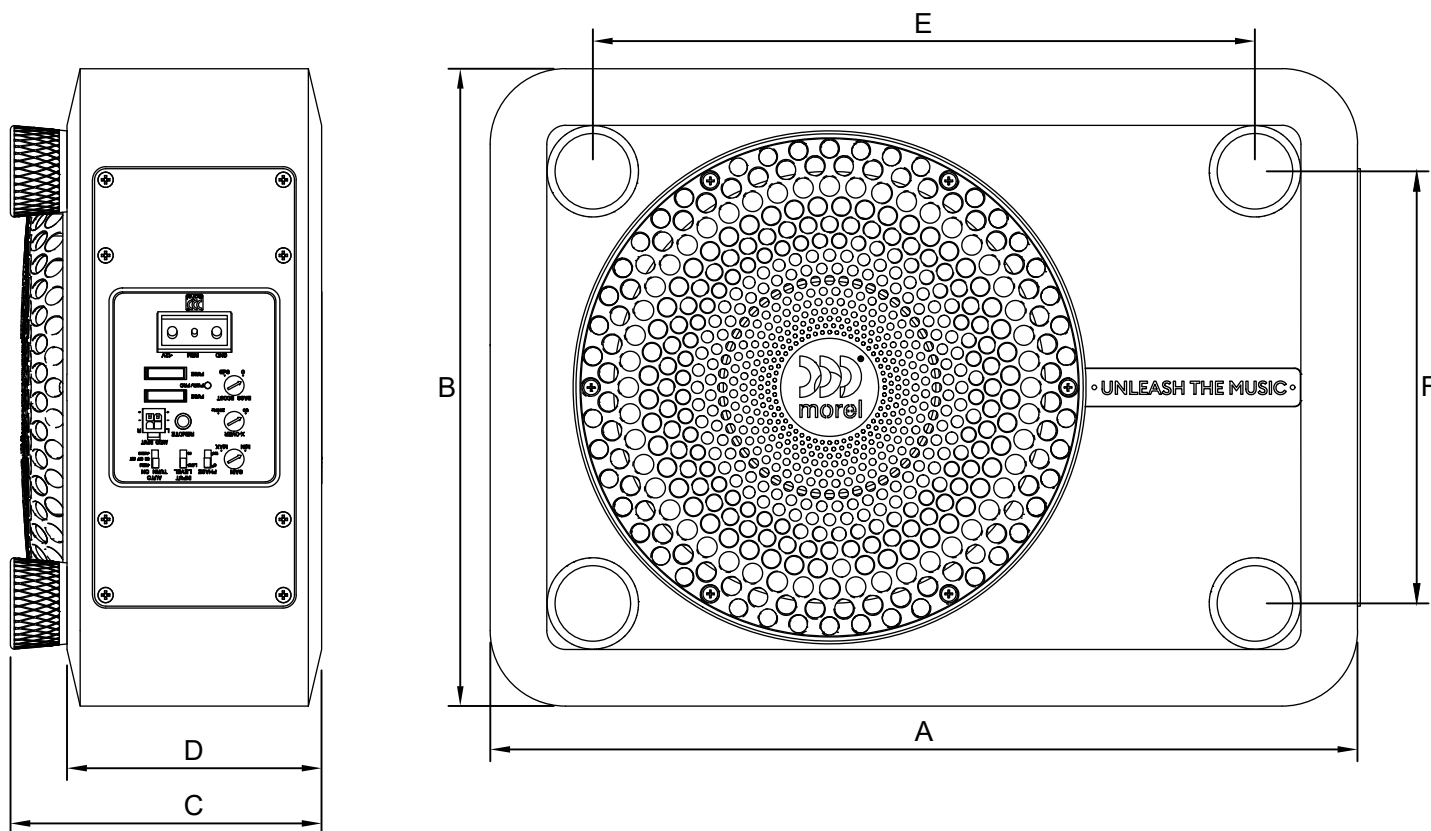


1x
Audio Input
Harness



1x
Enclosure

Dimensions



	PSL 8AE	PSL 10AE
A	16.5" (420 mm)	18.1" (460 mm)
B	12.8" (326 mm)	13.3" (338 mm)
C	6.5" (165 mm)	6.5" (165 mm)
D	5.3" (135 mm)	5.3" (135 mm)
E	12.25" (311 mm)	13.8" (351.6 mm)
F	8.54" (217 mm)	9" (229.16 mm)

Practice Safe Sound

Studies have shown that continuous exposure to high sound pressure levels from high-power audio systems can lead to permanent hearing loss. Additionally, high volume levels can obscure noises from outside your vehicle such as emergency vehicles and horns. As a valued Morel customer, we urge you to use common sense and practice restraint in the operation of this product.

Precaution

The Primo SL Active Loaded Subwoofer Enclosure is engineered to operate exclusively with a 12V DC electrical system using negative ground. Installing or operating this product in a vehicle with a positive-ground system or any voltage other than 12V may cause damage to the enclosure, amplifier, and/or vehicle and will void the warranty.



PLEASE MAKE SURE TO CAREFULLY READ AND UNDERSTAND ALL INSTRUCTIONS PRIOR TO INSTALLATION

Mounting the Enclosure

The Primo SL Active Loaded Subwoofer Enclosure houses its amplifier internally, eliminating the need for external amplifier mounting considerations. However, proper placement and secure installation of the enclosure itself are essential for safe operation and reliable performance.

The enclosure includes integrated feet with Velcro pads designed to help keep it stable when placed on carpeted surfaces commonly found in trunks or cargo areas. After positioning the enclosure, always test the holding strength of the Velcro to determine whether additional attachment or anchoring is necessary based on the vehicle and installation environment.

For safety, especially in the event of a sudden stop or collision, the enclosure should be mounted securely enough to prevent any movement. Any additional fastening methods or brackets required to achieve this stability are the responsibility of the installer to design and implement appropriately.

To ensure long-term reliability, install the enclosure in an area free of moisture, excessive heat, or obstructions, and in a location that does not interfere with the vehicle's electronics or safety equipment.

Protection

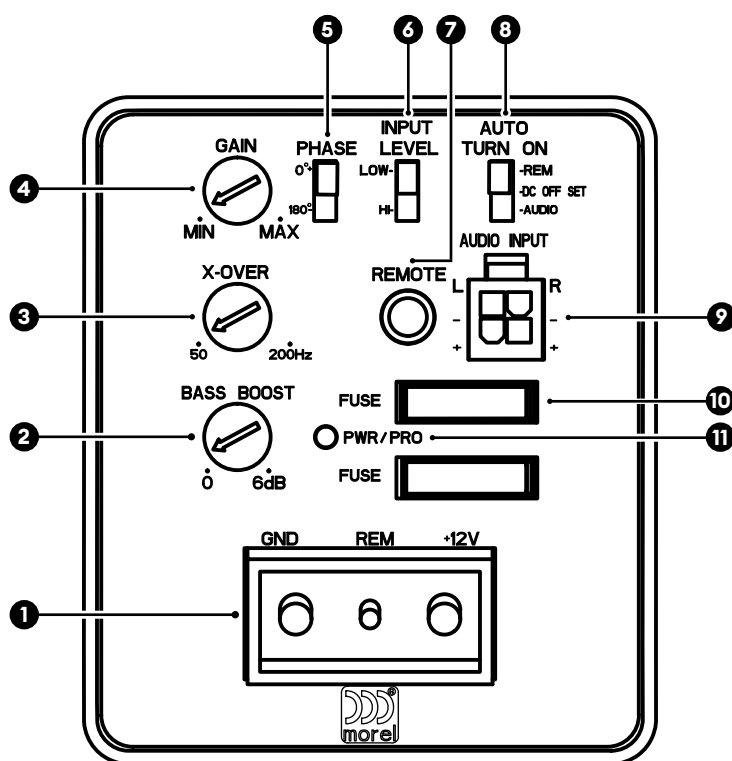
The Primo SL Active Subwoofer Enclosure is equipped with onboard fuses mounted directly on the amplifier to provide essential protection for the system. If one of these fuses fails, the installation should be carefully inspected to identify and correct the cause before replacing the fuse.

Planning and Installation

For best results, determine the best configuration of your new amplifier and plan the wiring routes to ease installation and optimize performance.

- **IMPORTANT!** Disconnect the vehicle's primary ground terminal from the battery post prior to commencing the installation.
- Make sure the mounting location you chose for the amplifier does not interfere with any functions of the vehicle mechanics and/or electronic devices. Also, be aware of the locations of the gas tank, wiring harnesses, fuel and brake lines, and other vital components of the vehicle prior to drilling any holes in the vehicle's chassis.
- Select high-quality signal cables and proper wire. It is highly recommended to use 100% OFC (oxygen-free copper) power and speaker wire of proper size for best performance and longevity of the product.
- Do not run power or audio cables on the exterior of the vehicle, including underneath, as this can result in severe damage to the vehicle or person.
- Avoid running power and audio cables next to sensitive electronics within the vehicle, and be sure to route the signal cables away from the power cables.
- Always use rubber grommets when running wire through metal walls or barriers, and use loom to protect the cable from sharp edges or areas of high heat.
- Power amplifiers place an increased load on the electrical charging system. Generally, factory charge systems in good condition should be able to withstand the extra load of an MPS amplifier without a problem. However, multiple amplifier systems can draw excess current and create a serious strain on the electrical system. It is best to consult your audio specialist for advice on whether or not it is necessary to upgrade your electrical system to meet the demands of the audio system.
- Place an insulated in-line fuse holder of the appropriate current capacity within 16 inches (40cm) of the battery positive (+) terminal. Connect this to the power cable connecting the positive terminal of the amplifier. This fuse is designed to protect the vehicle in the event of a short. Only install the fuse once the power cable has been secured to the amplifier.
- Locate a solid metal area as close to the amplifier as possible to connect the ground wire terminal. Use the same gauge wire for ground as for the power wire. The length of the ground wire should not exceed 36 inches (90cm) from the amplifier. To ensure a solid connection, remove surface paint at the ground point prior to securing the connector in place.

Features



1. Power Connector

Provides power input and remote turn-on signal to the amplifier.

GND (Negative Power Input): Connects to the vehicle chassis or battery negative terminal.

REM (Remote Turn-On, Center): Receives 12V signal to turn the amplifier on.

+12V (Positive Power Input): Connect to battery positive through a fused power wire

2. Bass Boost

This allows the user to boost the output of the amplifier centered around 45Hz with a range of 0 to +6dB.

3. Low-Pass Crossover

This amplifier is designed as strictly a subwoofer amplifier and therefore the crossover cannot be defeated. The crossover frequency controller allows the user to adjust the frequency of the Lowpass crossover filter between 50 and 200Hz.

4. Input Sensitivity Controller

The input sensitivity controller (gain) is used to properly match input signal levels from the signal source to optimize the amplifier outputs. **THIS IS NOT A VOLUME CONTROL!** If the gain is not set properly the amplifier may clip early and damage your subwoofer and the amplifier itself. It is highly recommended to use an audio specialist to properly adjust.

5. Polarity / Phase Switch

Adjustable output phase switch with 0° and 180° settings

6. High/Low Level Input Voltage Selector

Select signal input voltage based on the type of input used. When using an aftermarket radio, DSP or line level converter, select Low for levels up to 4.5VRMS. When using high-level input from an amplified factory audio system, select High for levels up to 9VRMS.

7. Remote Level Control

Connector for optional remote subwoofer level control. This allows the user to adjust the output level of the amplifier on the fly from a remote location within the vehicle.

8. Turn-On Mode Selector

Select between two amplifier turn-on modes. When using a switched 12V lead—such as the remote output from an aftermarket radio—set the switch to REM. When integrating with a factory audio system or another source that doesn't provide a dedicated remote output, choose Signal Sense, which automatically powers on the amplifier when an audio signal is detected through the inputs.

9. RCA / Speaker Level Inputs

The input harness is supplied with RCA connectors for easy integration with sources that provide low-level (0.1-4.5 VRMS) outputs. If your source does not offer preamplified outputs, the RCA ends may be cut off to allow direct connection to speaker-level signals (0.2-9 VRMS). Left and Right inputs are summed internally to produce a mono signal for the subwoofer.

10. Fusing

Two 25-amp fuses provide overcurrent protection for the amplifier's internal circuits.

11. Status LED

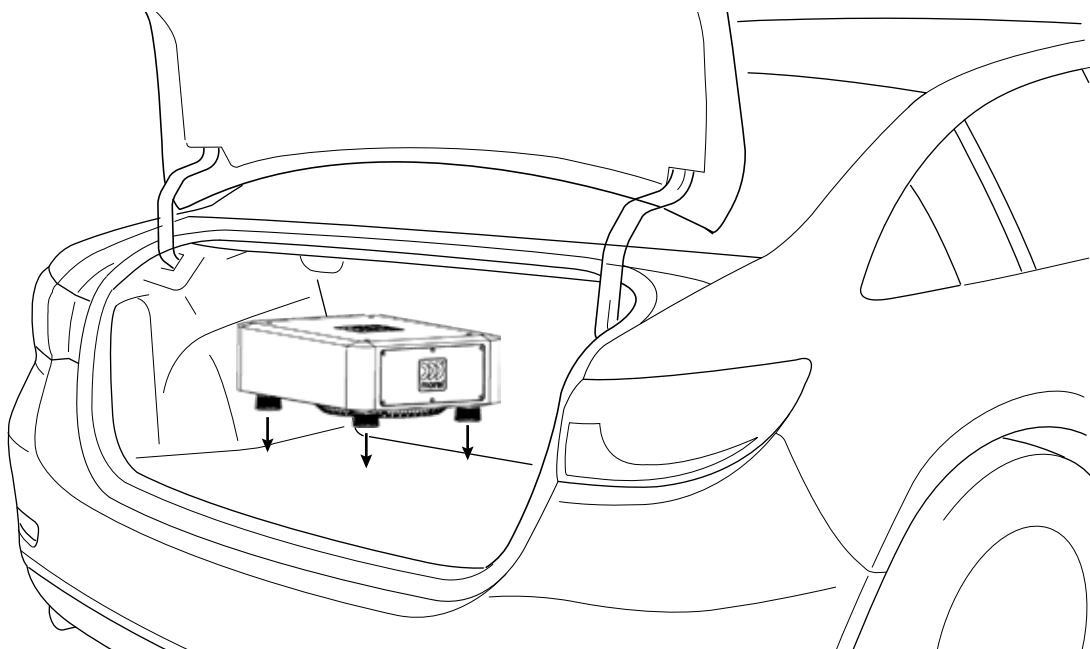
Blue indicates the amplifier is powered on and operating normally.

Red indicates the amplifier has entered protection mode, which may be triggered by overheating or abnormal supply voltage. The amplifier will shut down automatically until the issue is resolved.

Mounting

Velcro Mounting Feet

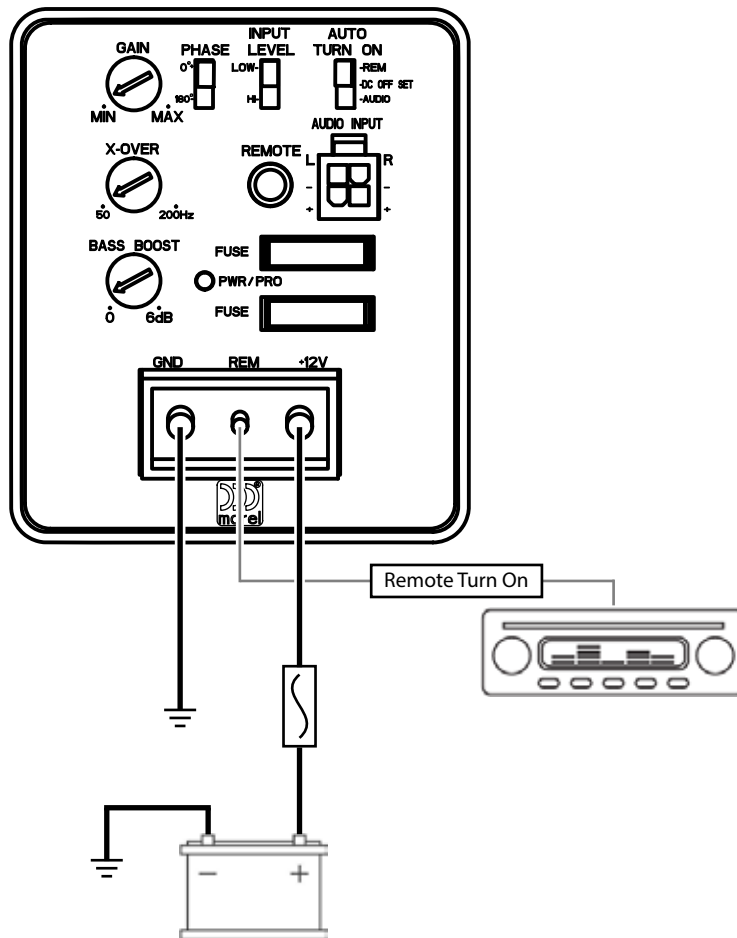
The bottom of the legs of the Primo SL features Velcro pads, providing a secure grip on carpeted surfaces in the default installation orientation. By removing the feet, the enclosure can also be installed with the woofer facing upward or on its side. In these alternative orientations, securing the enclosure should be planned and executed by the installer to ensure stability and safe operation.



Power Connections and Fusing

Main Power Connection and Fusing

The embedded amplifier accepts power and ground wire sizes up to 4 AWG, allowing flexibility based on installation needs and system current demand. The main power connector is removable, enabling the enclosure to be taken out of the vehicle without disturbing or exposing the power and ground wiring. A fuse must be installed on the power cable within 18 inches (45 cm) of the battery to protect both the vehicle and the amplifier.



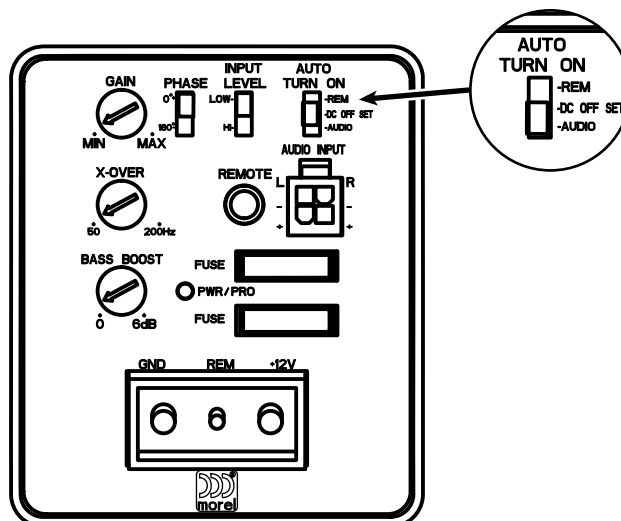
Amplifier Turn On Options

Remote Turn On

Supplying a +12V signal to the REM IN terminal—located on the removable power connector—activates the embedded amplifier when the selector switch is set to REM, allowing it to power on whenever an external device such as a head unit or processor provides the turn-on voltage. When the +12V trigger is removed, the amplifier shuts down automatically, ensuring proper turn-on sequencing and preventing unwanted power cycling. See the image above for the wiring diagram.

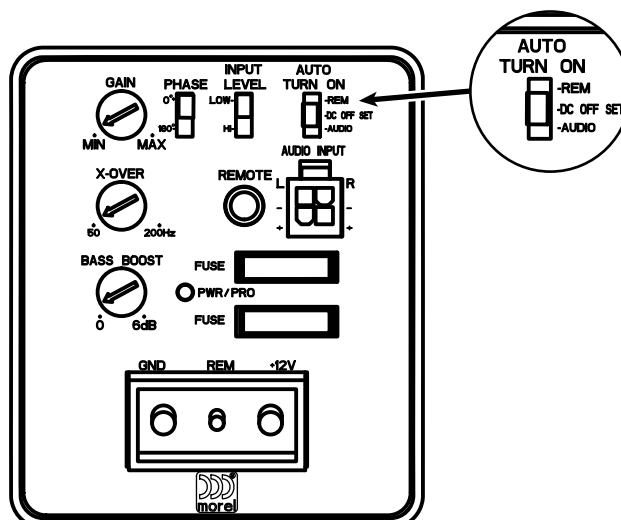
Signal Sense Turn On

When switched to AUDIO, the amplifier automatically powers on when a high-level audio signal is detected on the H1+/H1– wires of the AUDIO INPUT harness. This function supports BTL (bridged-tied-load) detection commonly used in OEM high-level sources, allowing seamless turn-on without a dedicated remote wire. The amplifier will remain on for up to 10 seconds after the audio signal is no longer detected, ensuring smooth power transitions and preventing unwanted rapid cycling.



DC Offset Turn On

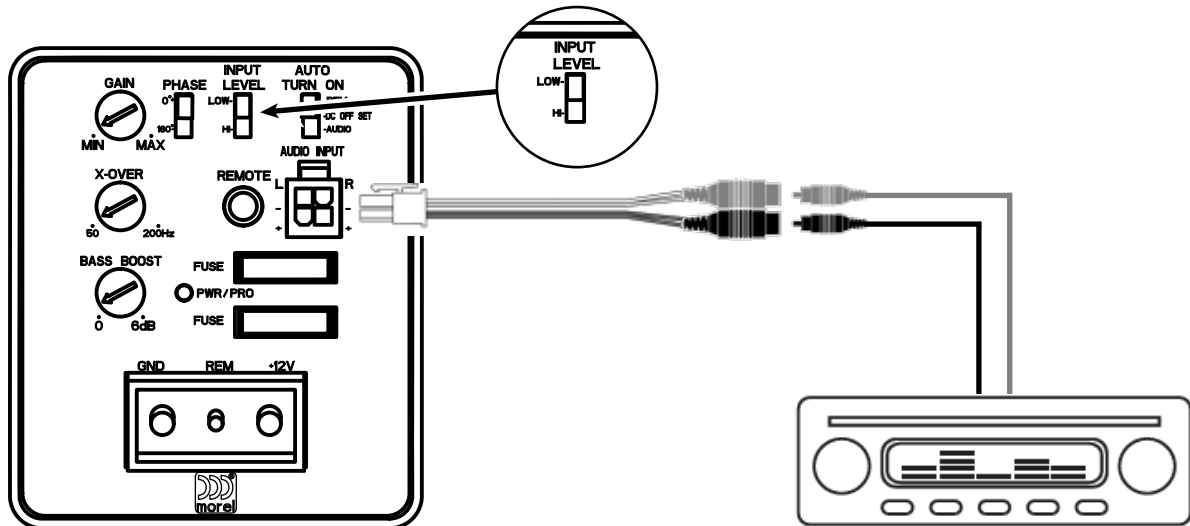
When switched to DC OFF SET, the amplifier automatically powers on when a high-level audio signal with a DC offset is detected on the H1+/H1– wires of the AUDIO INPUT harness. For this mode, the OEM audio signal is typically shifted upward—commonly around 5V—allowing the OEM amplifier to know to turn on without a dedicated turn-on wire. The DC Offset setting should be used where traditional signal sensing may not operate correctly. The amplifier will remain on for up to 10 seconds after the DC-offset audio signal is no longer detected, ensuring smooth power transitions and preventing unwanted rapid cycling.



Signal Connections

RCA Connections

The low-level inputs use RCA connections to interface with aftermarket source units or any source providing a low-voltage signal between 0-2V. These inputs deliver a clean line-level signal to the amplifier, allowing precise audio processing while minimizing noise and interference in the system.

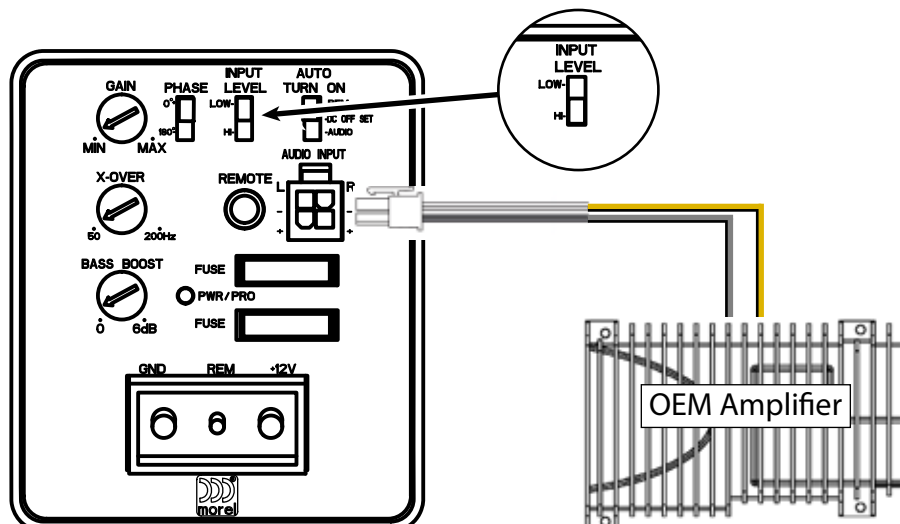


High-Level (Speaker) Input

To use the high-level (speaker) inputs, the RCA ends of the Audio Input Harness must be cut off. This prepares the harness for direct connection to the OEM speaker wires.



Once the RCA ends are removed, the speaker wires from the OEM audio system can be connected directly to the Audio Input Harness. Additionally, the Input Level Switch must be set to High to properly match the input signal for the amplifier.



Dimensions

PRIMO SL ACTIVE ENCLOSURES	PSL 8AE	PSL 10AE
Subwoofer Driver Size	8"	10"
Frequency Response Hz	20-200Hz	20-300Hz
Output Power	350 WRMS	350 WRMS
Power Supply Voltage	10~16V	10~16V
Fusing (Onboard)	15A x 2	15A x 2
THD	<0.3%	<0.3%
S/N Ratio	80dB	80dB
Input Sensitivity (Low)	0.1 - 4.5 VRMS	0.1 - 4.5 VRMS
Input Sensitivity (High)	0.2 - 9 VRMS	0.2 - 9 VRMS
Input Impedance (Low)	2.5KΩ	2.5KΩ
Input Impedance (High)	2.5KΩ	2.5KΩ
Inputs	RCA / Speaker	RCA / Speaker
Low Pass Crossover	50-200Hz @ 12dB	50-200Hz @ 12dB
Subsonic Crossover	30Hz	30Hz
Phase	0 - 180°	0 - 180°
Bass Boost	0~6dB @ 45Hz	0~6dB @ 45Hz
Remote Control	Yes	Yes

★ Morel is constantly developing new technology and processes to improve its products. Morel reserves the right to modify specifications or change product design without notice.

Wishing you many years of sound enjoyment!



Morel, Ness Ziona, 70400 Israel.

Tel: +972-8-9301161

Fax: +972-8-9301312

E-mail: info@morelhifi.com

Morel America, Chandler, AZ, USA

Toll-free number: 1-877-667-3511

Fax: 1-718-721-1560

E-mail: info@morelamerica.com

www.morelhifi.com