

#### LIMITED WARRANTY (USA)

Phoenix Gold warrants this product to be free of defects in materials and workmanship for a period of one (1) year from the original date of purchase. The warranty term is extended to two (2) years if installation is performed or approved by an authorized Phoenix Gold dealer (proof of installation or approval required on purchase receipt).

This warranty is not transferable and applies only to the original purchaser from an authorized Phoenix Gold dealer. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Phoenix Gold will (at its discretion), repair or replace the defective product

with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

#### WARRANTY IS VOID IF THE PRODUCT'S SERIAL NUMBER HAS BEEN REMOVED OR DEFACTED.

Any applicable implied warranties are limited in duration to the period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations

on implied warranties, therefore these exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

#### IF YOU NEED SERVICE ON YOUR PHOENIX GOLD PRODUCT:

All warranty returns should be sent to Phoenix Gold's Product Service Facility freight-prepaid through an authorized Phoenix Gold dealer and must be accompanied by proof of purchase (a copy of the original sales receipt). Direct returns from consumers or non-authorized dealers will require a Return Authorization number from Phoenix Gold in advance of any shipment to the product service facility. Units returned to Phoenix Gold without an RA number may be subject to refusal or delays.

Warranty expiration on products returned without proof of purchase will be determined from the manufacturing date code. Coverage may be invalidated as this date is previous to purchase date. Non-defective items received will be returned freight-collect. Customer is responsible for shipping charges and insurance in sending the product to Phoenix Gold. Freight damage on returns is not covered under warranty.

#### FOR SERVICE INFORMATION IN THE U.S.A. PLEASE CALL:

Phoenix Gold customer service: (503) 286-9300  
during normal business hours (8:30 AM – 5:00 PM Pacific Standard Time)



PHOENIX GOLD INTERNATIONAL, INC  
9300 North Decatur St. Portland, OR 97203  
(do not send product for repair to this address)

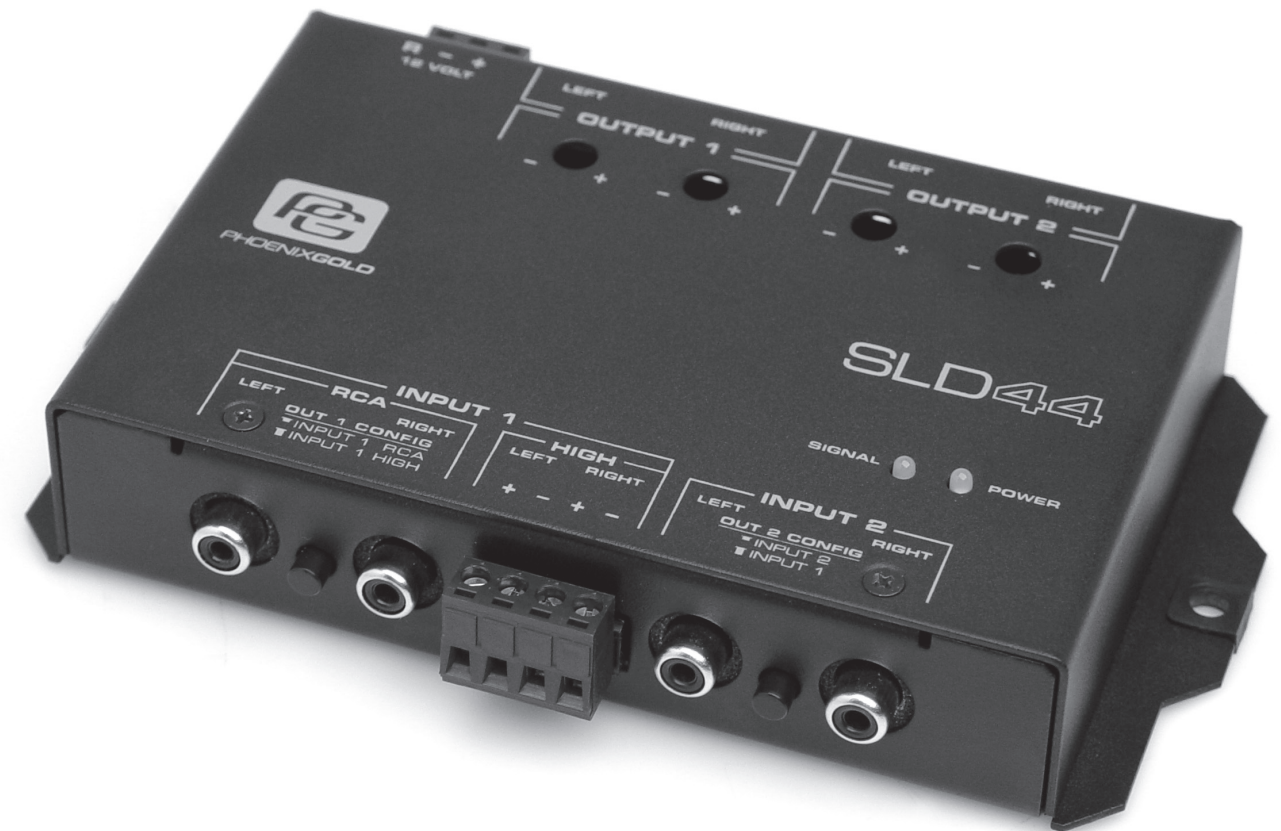
#### INTERNATIONAL WARRANTIES:

Products purchased outside the United States of America are covered only by that country's distributor and not by Phoenix Gold International, Inc.



PHOENIXGOLD™

SLD44  
SIGNAL LINE DRIVER  
OWNER'S MANUAL

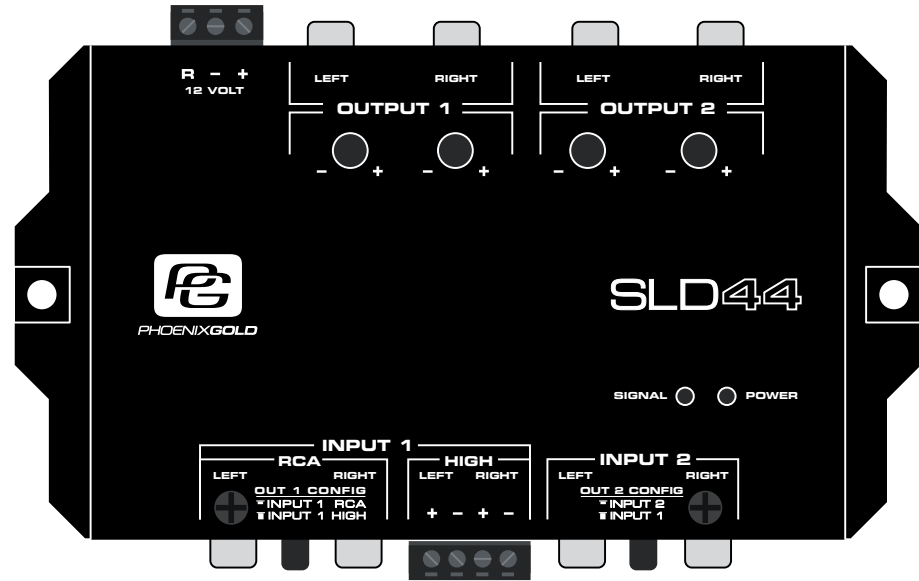


*Congratulations on your purchase of high quality Phoenix Gold audio electronics. At Phoenix Gold our highest concern is musical reproduction. We appreciate that you chose our product. Through years of engineering expertise, hand craftsmanship and critical testing procedures, we have created a wide range of products to give your system all the clarity and richness you deserve.*

*For maximum performance we recommend that you have your new Phoenix Gold product installed by an Authorized Phoenix Gold Dealer. Please read your warranty and retain your receipt and original carton for possible future use.*

*Great product and competent installations are only one piece of the puzzle when it comes to your system. Make sure that your installer is using only the best installation accessories. Phoenix Gold manufactures everything from RCA cables and speaker wire to power/ground cable and battery connectors. With proper installation and accessories your system will sound the best that it can.*

*For more information about Phoenix Gold electronics, speakers and accessories please visit [www.phoenixgold.com](http://www.phoenixgold.com)*



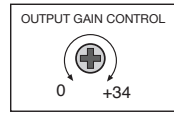
- Frequency Response (Hi and RCA Inputs)**  
10Hz to 40kHz (+/-0.5dB)
- Hi Level Input THD+N**  
< 0.02% @ 1kHz 8V RMS output
- Hi Level Input S/N Ratio (A Weighted)**  
106dB
- RCA Input THD+N**  
< 0.002% @ 1kHz 8V RMS output
- RCA Input S/N Ratio (A Weighted)**  
110dB
- High Level Input Impedance**  
100 Ohm
- RCA Input Impedance**  
10k Ohm
- Output Impedance**  
100 Ohm
- Output Voltage**  
Up to 11V RMS
- Dimensions**  
6.5" L x 3.9" W x 1.3" H

- Power Connector:** Make connections using the supplied detachable plug. Connect the (+) terminal to battery positive, the (-) terminal to chassis ground, and the (R) remote terminal to a switched 12v source or remote wire. An internal fuse protects against reverse polarity.
- Power LED:** Lights when the unit is operational.
- Signal LED:** Lights when the SLD44 is receiving a signal input.
- RCA Inputs:** If the SLD44 is to be used as a line driver for RCA (low level) inputs connect

your head unit's outputs to the inputs. If you run the front into input 1 and the rear into input 2 you will maintain the ability to use your fader control. If your headunit does not have a front and rear output plug the single output into input 1 of the SLD44 and you will be able to configure both outputs to use this single input. There is no need for a Y splitter to connect to both inputs.

- High Level Inputs:** These connections are used when your headunit does not have RCA (low level) outputs. Make connections to your headunit's speaker output terminals using the

- supplied detachable plug. Be sure to observe polarity!
- Output Gain Control:** Adjusts signal gain from 0 to +34dB. Left and right channels have separate controls.
  - RCA Outputs:** Connect to the amplifier or signal processor's RCA inputs.



Install the SLD44 as close as possible to the headunit. It is not necessary to ensure it is not touching the vehicle body

- First determine if you have RCA (low level) outputs from your headunit. If you have an aftermarket system you will probably have these. If you are installing with a stock head unit you probably will not have these.
- Select a position for output config 1 switch
  - If you DO NOT have RCA (low level) outputs and you wish to control the system using the high (speaker level) inputs press output config switch 1 to the out position.
  - If you do have RCA level outputs and want to use half of the unit for high level and the other half for your RCA level outputs push output config 1 switch to the out position.
  - If you are using the SLD44 as a line driver and are only using RCA level inputs push the output config 1 switch to the in position.
- Select a position for output config 2 switch
  - If you are using only one output use output 1 and leave output 2 unconnected. In this event push output config 2 switch in.
  - If you are using high level inputs and want both outputs to be driven by your high level inputs push output config 2 switch to the out position.
  - If you're using RCA level inputs and only have one pair of RCA's but want both outputs to be driven from input 1 push the output config 2 switch to the out position.
  - If using two sets of RCA's push the output config switch to the in position.
- Set all amplifier and signal processor input gains and output level controls to minimum including the SLD44 itself.
- Disconnect all channels connected to the SLD44 except for the one channel you wish to adjust. Only adjust one channel at a time. This makes it obvious when a specific channel has reached unwanted distortion levels.

- Play a dynamic track and set your headunit to 3/4 of full volume.

**Note: The next few steps depend on what type of system you have.**

If you are connecting straight from the SLD44 to an amplifier go to steps 7-10 labeled as "To amplifiers only."

If connecting from your SLD44 to a signal processor please continue to steps 11-15 labeled as "To signal processors and then to amplifier(s)."

**To amplifiers only:**

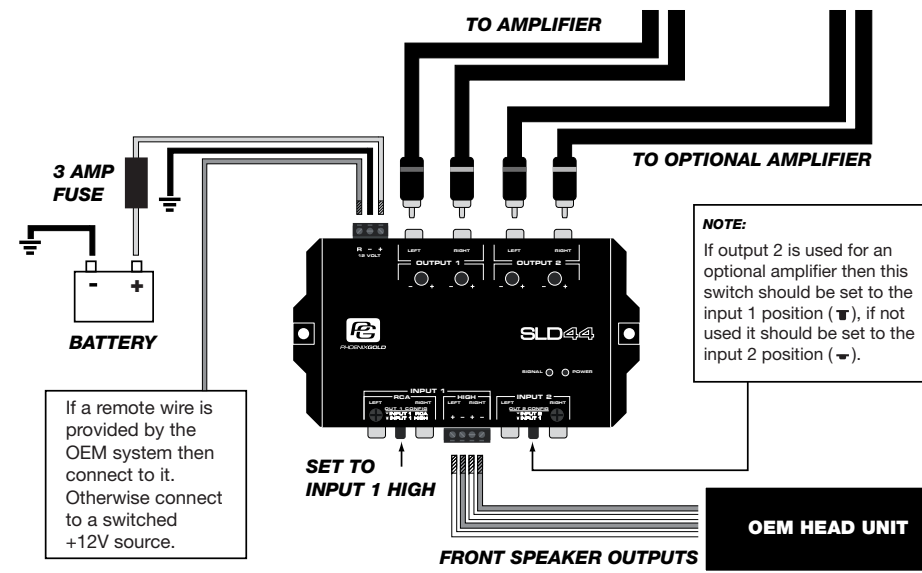
- Slowly turn up the SLD44's output gain control until the speakers begin to distort slightly.
- If the speakers have not reached maximum undistorted output (which is very unlikely), then and only then turn up the amplifier's gain control until the speakers are driven to slight distortion.
- Reduce the SLD44's output level or the amplifier's gain control just enough to remove the distortion. Repeat for additional channels. If you had to turn up the gain control on the amplifier make sure that you reduce this level first before reducing that of the SLD44. The lower the gain setting on your amplifier, the cleaner and more noise free your system will be. If you're driving the input of your amplifier properly, having your gains set low DOES NOT decrease the amount of power wattage your amplifier will provide to the speakers! Your amplifier's gain control is a level matching control only and NOT a volume control!
- Make sure that the complimentary left and right channel gains are set to the same position.

**To signal processors and then to amplifier(s):**

- Slowly turn the SLD44's output gain control until the maximum allowable input voltage of the next processor in the signal path is reached. You may find this using an audible test or you may need to use a sine wave test CD and a true RMS Volt meter to set this correctly. Listening for slight distortion is usually quite accurate.
- Adjust the input gains and output levels of each signal processor between the SLD44 and the amplifier to maintain equal input and output levels (unity gain). Start with the first processor after the SLD44 and work your way down the signal path to the amplifiers.
- If the speakers have not reached maximum undistorted output (which is very unlikely), then and only then turn up the amplifier's gain control until the speakers are driven to slight distortion.
- Reduce the last processor's output level or the amplifier's gain control just enough to remove the distortion. Repeat for additional channels. If you had to turn up the gain control on the amplifier make sure that you reduce this level first before reducing that of the last processor. The lower the gain setting on your amplifier, the cleaner and more noise free your system will be. If you're driving the input of your amplifier properly, having your gains set low DOES NOT decrease the amount of power your amplifier will provide to the speakers! Your amplifier's gain control is a level matching control only and NOT a volume control!
- Make sure that the complimentary left and right channel gains are set to the same position.

## FACTORY/OEM HEADUNIT CONFIGURATION:

Use this configuration to connect the SLD44 to your factory/OEM headunit that does not have RCA outputs on the back.



## RCA CONNECTION FROM YOUR AFTERMARKET HEADUNIT.

**Connecting one amplifier and you have one RCA input to the SLD44.**

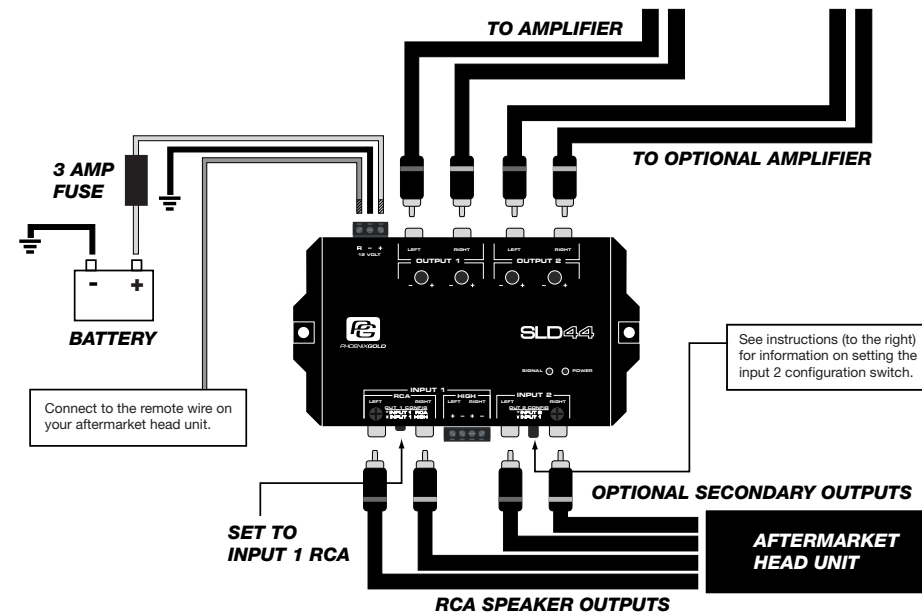
Connect the RCA cable from your head unit output to the SLD44 input 1. Make sure to set the Output 1 Config switch to the "Input 1 RCA" position and the Output 2 Config switch to the "Input 2" position. Connect to your amplifier with a single RCA out of the Output 1.

**Connecting two amplifiers and you have one RCA input to the SLD44.**

Connect the RCA cable from your head unit output to the SLD44 input 1. Make sure to set the Output 1 Config switch to the "Input 1 RCA" position and the Output 2 Config switch to the "Input 1" position. Connect to one amplifier out of Output 1 and to the other amplifier out of Output 2.

**Connecting two amplifiers and you have two RCA inputs to the SLD44.**

Connect one RCA cable from your head unit output to the SLD44 input 1 and the other to input 2. Make sure to set the Output 1 Config switch to the "Input 1 RCA" position and the Output 2 Config switch to the "Input 2" position. Connect to one amplifier out of Output 1 and to the other amplifier out of Output 2.



## MULTIPLE SOURCE CONFIGURATION.

Use this configuration to connect the SLD44 to two source units. At least one source unit must be a low level input (shown as source 2 in the diagram to the left). Source 1 can be connected with either high or low level inputs.

If you have a source unit with only one pair of rear RCA outputs, you can use this configuration to maintain the fader control of your headunit. Plug the front high level outputs of your head unit into Input 1 High on the SLD44 and the rear RCA outputs from your headunit to Input 2.

