

## Why SoundGate Dealers have the edge...

The technologies used in today's vehicles are as sophisticated as found in any laptop computer. At SoundGate, we believe these new technologies are full of opportunities for mobile electronic dealers across the nation. We make it a high priority to not only research these new systems, but to understand them and their impact on the aftermarket car audio industry. Armed with this knowledge, we are well equipped to help you integrate new components into these systems with our innovative, high-performance interfaces and unparalleled technical support.



[www.soundgate.com](http://www.soundgate.com)

# LOC4.2

# SoundGate



### Description...

The LOC4.2 is part of our Audiophile Series of products and is designed and built to standards of quality and performance not found elsewhere in the OEM Integration

Industry. Since the LOC4.2 does not use power resistors, transformers, or potentiometers, performance is far beyond that of any competing product.

### Purpose...

The LOC4.2 is a 2-channel device designed to connect new amplifiers or signal processing components to existing sound systems.

### Features...

The LOC4.2 offers user selectable dual-voltage (4V, or 1.5V) output, full bandwidth frequency response, and extremely low distortion. Precision-tolerance components and sophisticated circuitry guarantee the ultimate in performance. Inputs are convenient pigtail leads while outputs are high-quality gold-plated RCA connectors.

**Maximum Input:** 85 Watts

**Frequency Response:** 17Hz-27kHz +0, -1.5dB (-3dB at 12Hz)

**Total Harmonic Distortion:** less than 0.005% from 20Hz to 25kHz (0.0005% at 1kHz)

We also offer a 4-channel version, the LOC4.4, with the same high quality and performance.

## Be Sure To Ask Your Autosound Specialist About These Other Exciting SoundGate Products...

- Auxiliary Input Interfaces and Docking Stations which allow you to input the audio from MP3, DVD/Video, Satellite Radio, and more to OEM and aftermarket car audio systems
- High-performance Radio Replacement Interfaces for seamlessly integrating new receivers or CD players into OEM audio systems
- Competition-Grade Interfaces for adding amplifiers
- Remote Audio Control Interfaces that let you control aftermarket receivers and CD players from your factory rear seat, or steering-wheel-mounted audio controls.
- And many others!

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## READ FIRST!!

For the best performance and highest signal-to-noise ratio, we highly recommend connecting the LOC4.2 as close to the source unit as possible (receiver or the output on the amplifier) and keeping the input leads to the LOC4.2 as short as possible. **DO NOT** 't-tap' into existing speaker leads, as noise may occur. If 't-tapping' into leads is necessary, please use SoundGate part #LOCX, or #XR4.

**Step 1** If required by your installation, gain access to your factory radio.

Carefully disassemble the dash area and remove your factory radio. Follow all precautions such as disconnecting the negative battery cable and setting the emergency brake. Especially follow warnings concerning working with, or around, air bags.

Continued on Reverse Side...

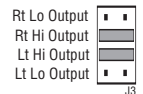
**From Receiver or output of amplifier**

Violet - Right (+) input from radio  
Violet/Black - Right (-) input from radio  
Green - Left (+) input from radio  
Green/Black - Left (-) input from radio



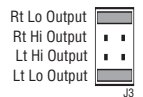
**Note:** White, White/Black and Grey, Grey/Black wires are not used with LOC4.2

**Step 2** **Connect the LOC4.2 to the amplifier or receiver's speaker output leads.** Following the diagram above, connect the speaker leads from the receiver or amplifier to the input of the interface. Please note that the LOC4.2 gives you two choices of output. The "High" setting can be used with almost all amplifiers and will produce the best signal-to-noise ratio in the sound system. Output voltage using the "High" setting will be approximately 4 Volts. The "Low" output setting will provide approximately 1.5 Volts and can be used with those amps that cannot accept the higher output voltages that the "High" settings provide. A constant 'hiss' will be heard if the amplifier cannot accept higher voltages.



**High Output (default)**

To change the output settings, remove the cover from the LOC4.2 and locate the shunt header (adjacent to the white input connector). Referencing the markings on the board, and the diagrams at right, set the output to the desired setting (high or low) by carefully removing the shunt connectors from the header and reinstalling in the desired location.



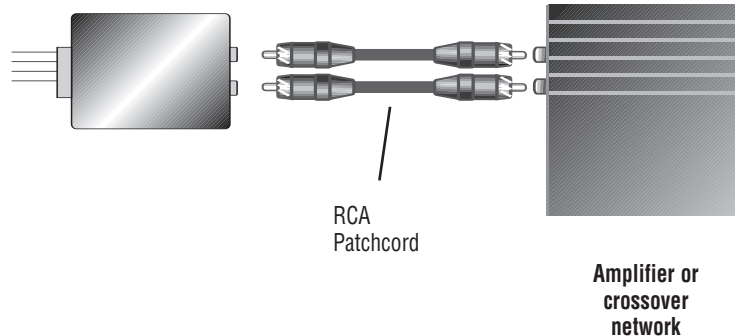
**Low Output**

**Step 3** **Connect the LOC4.2's RCA outputs to the amplifier or crossover network inputs.** Following the diagram below, simply connect the LOC4.2 to the amplifier or electronic crossover network.

**For typical 2-channel use**

**Note:**

SoundGate highly recommends the use of "twisted-pair" RCA cables to interconnect sound system components in automotive sound systems.



**Step 4** **Operational Notes and Troubleshooting:**

1. If bass is weak after making all connections, check the polarity on the input connections reverse the speaker input leads of the channel that is out of phase at the LOC4.2.
2. If no sound is heard after completing system connections, or if the balance and fader features of the radio do not operate correctly, ground just one of the RCA cable shields to chassis ground (some amplifiers need the shield side of their RCA inputs grounded in order to operate).