SPL69

2 Ohm NominalTriax SpeakerOWNER'S MANUAL



SPL 69 Coaxial Speaker

Congratulations on your purchase of the Soundstream SPL 69 Coaxial Speaker. When used with a high quality 2 ohm rated power amplifier, the SPL 69 will provide exceptional performance.

As with all high quality car audio components, professional installation is recommended. Your dealer's knowledge and experience can ensure a problem-free, cosmetically integrated installation. If you plan on installing the SPL 69 speaker yourself, please review this Owner's Manual first before attempting installation. In addition, it is a good idea to keep the manual for future reference.

SPL 69 Serial Number
Date of Purchase
Date of Installation
Dealer's Name

Before beginning your installation, please check to see that the number of parts contained in your box match the list below:

Hardware

8 each - 1 1/2" #8 sheet metal screws (for mounting SPL 69/grille frame))

Connectors

4 each - ¹/₄" tab female Gold insulated slip-on connectors

FEATURES

Midrange/Woofer

The SPL 69's Midrange/Woofer is an excellent performer with a combination of high sensitivity, powerful bass *and* smooth response throughout the audible range.

- •Lightweight Cone designed for good rigidity and high sensitivity
- Polyether Surround for increased sensitivity
- •2 Ohm Voice Coil for increased output

Dome Neodymium Tweeters

The SPL 69's coaxially mounted tweeters provide higher power handling and extended frequency response.

- 1" Textile dome for improved power handling and linear response
- 1/2 " Super Tweeter for extended highs
- Ferrofluid-immersed Voice Coils enhance heat dissipation

Passive Crossover Network

- High Quality, Precision Design with 2 poles on the tweeter and 1 pole on the super tweeter
- Acoustic Summation design combines the crossover with the speaker's natural roll-off for a steeper slope and increased power
- Dynamic tweeter protection allows for improved power handling and continuous output

2 Ohm Nominal System Impedance

The 2 Ohm impedance design of the SPL 69 provides an overall **3 dB** increase in output compared to a 4 Ohm design.

- Effectively a doubling of Sound Pressure Level -- with the same amplifier voltage
- More stable, phase coherent load than two 4 Ohm speakers operating in parallel

LOCATION AND MOUNTING

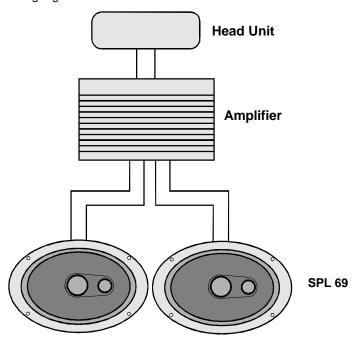
- The first step in a successful installation is thorough planning. Choose the location for your speaker components carefully. Follow these suggestions to ensure proper imaging and the best performance:
- Choose a location that offers the least obstruction of sound to your ears.
- Always check behind the chosen mounting locations to make sure that there are no obstructions (e.g., trunk springs, gas tank, window track) or wires in the way, as well as to make sure that there is ample support on which to mount the components.

INSTALLING The SPL 69 can be mounted on the front or rear of a panel; gaskets are provided for both options. The THE SPL69 bolt hole configuration will fit a variety of American, Asian and European OEM patterns making it ideal for direct placement. Best performance is achieved when the speaker is securely mounted to a door There should be no gaps panel or rear deck. between the speaker and the mounting surface, as this will impair its low frequency performance. Be certain that both the panel and the speaker are securely mounted to prevent unwanted vibration.

- 1) Mark the speaker location by using the template provided.
- 2) Cut the opening and debur the edges with a file.
- 3) Hold the speaker in place against the mounting surface and mark the mounting bolt holes.
- 6) Drill the appropriate size hole for the screws provided.
- 7) Place the SPL 69 onto the trim ring, make the speaker wire connections, then install the speaker/trim ring assembly to the panel using

WIRING SPL 69 Wiring Diagram

The figure below shows wiring for the SPL 69 speaker. It is important to make sure that all connections are in phase; that is positive (+) is connected to positive (+), and negative (-) is connected to negative (-) since an out-of-phase connection will cause a dislocated image and low bass output. We suggest using premium cable. The connectors provided with this system will accommodate wire from 12 gauge to 16 gauge.



SPECIFICATIONS

SPL 69 Specifications

Frequency Response 40 Hz - 22,000 Hz ±3dB

Sensitivity 94 dB SPL at 1 meter (2.83 Volts)

100 dB SPL at .5 meter (2.83 Volts)

Continuous Power Handling 80 watts
Peak Program Power Handling 160 watts

Nominal Impedance 2Ω

Crossover Slope Rate 12 dB/octave ASC

Dome Tweeter

Frequency Response 3000 Hz - 20,000 Hz ±3dB

Sensitivity 94 dB SPL at 1 meter (2.83 Volts)

Nominal Impedance 4Ω Nominal Tweeter Diameter 1"

Super Tweeter

Frequency Response 8000 Hz - 22,000 Hz ±3dB

Sensitivity 93 dB SPL at 1 meter (2.83 Volts)

Nominal Impedance 4Ω Nominal Tweeter Diameter 1/2"

Dimensions

Nominal Driver Dimensions $6" \times 9"$ Mounting Depth $3 \cdot 1/2"$



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