



P203

&

P205

Multi-Channel
Power Amplifiers

OWNERS MANUAL AND
INSTALLATION GUIDE

SOUNDSTREAM[®]

T E C H N O L O G I E S

CONGRATULATIONS / HERZLICHEN GLÜCKWUNSCH!!

You now own a Soundstream Amplifier, handcrafted in the USA, it is the result of a unique design and engineering philosophy.

To maximize the performance of your system, we recommend that you thoroughly acquaint yourself with its capabilities and features. Please retain this manual and your sales and installation receipts for future reference.

Soundstream amplifiers are manufactured with the highest quality control standards. When properly installed, they will provide you with many years of listening pleasure. Please record the following information which will help protect your investment should your amplifier ever need replacement or service

Sie sind jetzt stolker Besitzer einer SOUNDSTREAM Endstufe.

Um die optimale Leistung der Endstufe ausnutzen zu können, sollten Sie sich mit den verschiedenen Einstell-Möglichkeiten vertraut machen. Bitte heben Sie diese Anleitung und Ihren Kaufbeleg gut auf.

Soundstream Verstärker werden unter strengsten Qualitätskontrollen in den USA handgefertigt. Bei fachgerechtem Einbau werden Sie über Jahre hinweg viel Spaß mit diesem Produkt haben. Für den Fall, daß Ihre Endstufe trotzdem einmal repariert oder ersetzt werden muß, heben Sie bitte folgende Informationen auf:

Serial #/Seriennummer # _____

Dealer's Name/Händlername _____

Date of Purchase/Kaufdatum _____

Installation Shop/Einbaubei _____

Installation Date/Einbaudatum _____

CAUTION!

Prolonged listening at high levels may result in hearing loss. Even though your new Soundstream amplifier sounds better than anything you've ever heard, exercise caution to prevent hearing damage.

ACHTUNG!

Langes Hören bei hoher Lautstärke führt zu Hörschäden. Auch wenn Ihr Soundstream Verstärker selbst bei diesen Lautstärken noch hervorragend klingt, sollten Sie Ihre Hörgewohnheiten hierauf einrichten, um dauerhafte Hörschäden zu vermeiden.

TABLE OF CONTENTS (INHALT)

ENGLISH

| | |
|--|---------|
| P203 Diagram | 4 - 5 |
| P205 Diagram | 6 - 7 |
| Wiring & Wiring Diagram | 8 - 9 |
| Protection Circuitry & Troubleshooting | 10 |
| Service | 11 |
| Specifications | 11 |
| Sample Systems | 18 - 21 |

DEUTCH

| | |
|--|---------|
| P203 Diagramm | 12 13 |
| P205 Diagramm | 14 -15 |
| Anschluß-Diagramm | 16 - 17 |
| Schutzschaltung & Fehlerbehebung | 18 |
| Service | 19 |
| Technische Daten | 19 |
| Beispielanlage | 18 - 21 |

EABLF CONTENTS (INHALT)

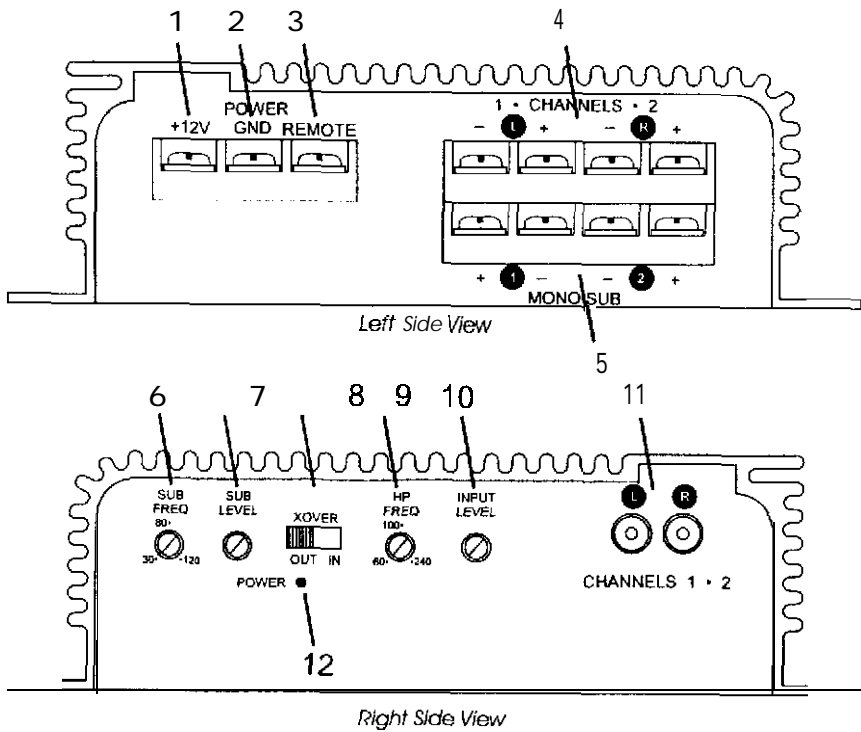
ENGLISH

| | |
|--|---------|
| P203 Diagram | 4 - 5 |
| P205 Diagram | 6 - 7 |
| Wiring & Wiring Diagram | 8 - 9 |
| Protection Circuitry & Troubleshooting | 10 |
| Service | 11 |
| Specifications.. | 11 |
| Sample Systems | 18 - 21 |

DEUTCH

| | |
|--|---------|
| P203 Diagramm | 12 - 13 |
| P205 Diagramm | 14 - 15 |
| Anschluß-Diagramm..... | 16 - 17 |
| Schutzschaltung & Fehlerbehebung.. | 18 |
| Service.. | 19 |
| Technische Daten | 19 |
| Beispielanlage | 18 - 21 |

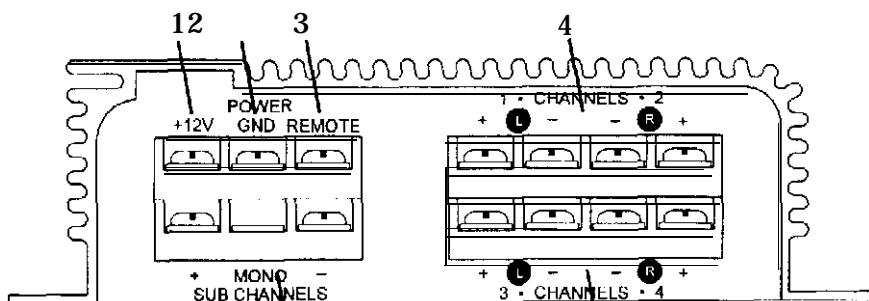
P203 - 3 Channel Amplifier



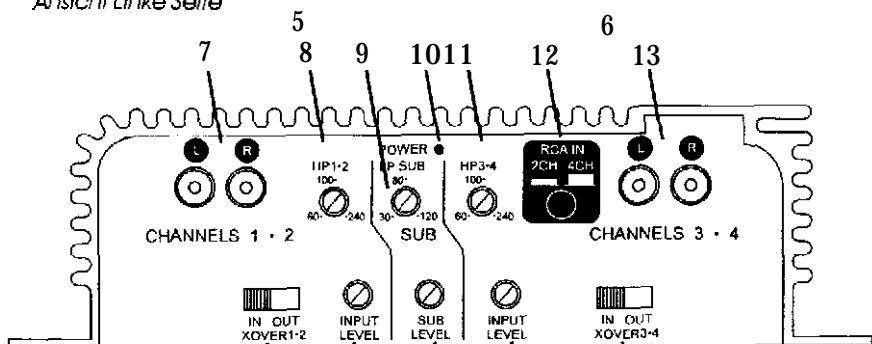
Key to Callouts

1. **+12V** Connected to fuse or circuit breaker, then battery's positive post.
2. Ground Main ground connection. Bolt to a clean chassis ground in the vehicle.
3. Remote - Remote turn-on input from the head unit. Accepts **+12V**.
4. Speaker Output Connections-Channels 1 & 2.
5. Speaker Output Connections Sub Channels.
6. Crossover Adjustment Pot - Crossover frequency setting for the subwoofer low pass filter.
7. Input Level Variable from 40mV to **2.5V**—Subwoofer Channel.
8. Crossover Switch Select "IN" to use the amplifier's internal high pass filter, or "OUT" to bypass the internal crossover.
9. **Crossover Adjustment** Pot-Crossover frequency setting for the channels 1 & 2 high pass filter.
10. Input Level -Variable from 100mV to **2.5V**—Channels 1 & 2.
11. Inputs - Right and left channel inputs for channels 1 & 2 and the subwoofer.
12. LED Indicates amplifier power on.

P205 - 5 Channel Amplifier



Left Side View
Ansicht Linke Seite



Right Side View
Ansicht Rechte Seite

Key to Callouts

1. **+12V** - Connected to fuse or circuit breaker, then battery's positive post.
2. Ground Main ground connection. Bolt to a clean chassis ground in the vehicle.
3. Remote Remote turn-on input from the head unit. Accepts +12V.
4. **Speaker Output Connections Channels 1 & 2.**
5. **Speaker Output Connections Sub Channels.**
6. **Speaker Output Connections** Channels 3 & 4.
7. Inputs Right and left channel inputs for channels 1 & 2.
8. Crossover Adjustment Pot - Crossover frequency setting for the channels 1 & 2 high pass filter. **Subwoofer** Crossover Switch Select "IN" to use the amplifier's internal low pass filter, or "OUT" to use an external crossover.
9. Crossover Adjustment Pot Crossover frequency setting for the subwoofer low pass filter.
10. LED Indicates amplifier power on.
11. Crossover Adjustment Pot - Crossover frequency setting for the channels 3 & 4 high pass filter. **Inputs** Right and left channel inputs for channels 1 & 2 and the subwoofer.
12. Channels 3 & 4 **Input** Select - Switches to allow all channels to be driven from 2 (CH 1 & 2) or 4 RCA inputs
13. **Inputs Right and left channel inputs for channels 3 & 4.**
14. **Channels 1 & 2 Crossover Switch - Select "IN" to use the amplifier's internal high pass filter. or "OUT" to bypass the internal crossover.**
15. **Input Level -Variable from 100mV to 2.5V—Channels 1 & 2.**
16. **Input Level - Variable from 40mV to 2.5V—Subwoofer Channel.**
17. **Input** Level -Variable from 100mV to 2.5V—Channels 3 & 4.
18. Channels 3 & 4 Crossover Switch - Select "IN" to use the amplifier's internal high pass filter, or "OUT" bypass the internal crossover.

WIRING

POWER AND GROUND

To assure maximum output from your amplifier, use high quality, low-loss power and ground cables. Soundstream amplifiers incorporate gold-plated barrier strips for maximum power transfer and protection from corrosion. The screw terminals back out for use with spade & ring terminals. Determine from the chart below the minimum gauge power and ground wire for your application.

| <i>Model</i> | <i>up to 10'</i> | <i>up to 20'</i> |
|--------------|------------------|------------------|
| P203 | 10 or 12 ga. | 10 ga. |
| P205 | 10 or 12 ga. | 10 ga. |

CIRCUIT BREAKERS/FUSES

EXTERNAL

Like all audio components, the Soundstream amplifiers must be **fused near the battery** A fuse or circuit breaker must be located within 18" of the battery This will prevent a fire in the event of a shorted cable. See the chart below to determine the value of your battery Fuse/circuit breaker.

INTERNAL

The Soundstream amplifiers are fused internally with automotive-type fuses. The fuse is accessible on the left side of the amplifier. **Never replace the fuses with a higher value than what is supplied. This may result in amplifier damage and will void the warranty!**

(Continued on page 9)

| <i>Model</i> | <i>Amplifier Fuses</i> | <i>Battery Fuse/ Circuit Breaker</i> |
|--------------|------------------------|--|
| P203 | (1) 30 amp automotive | 40 amp |
| P205 | (2) 20 amp automotive | 50 amp |

(Continued from page 8)

REMOTE TURN-ON

Connect the "Remote" to the turn-on lead from the source unit. When +12 volts is received, the amplifier will turn on.

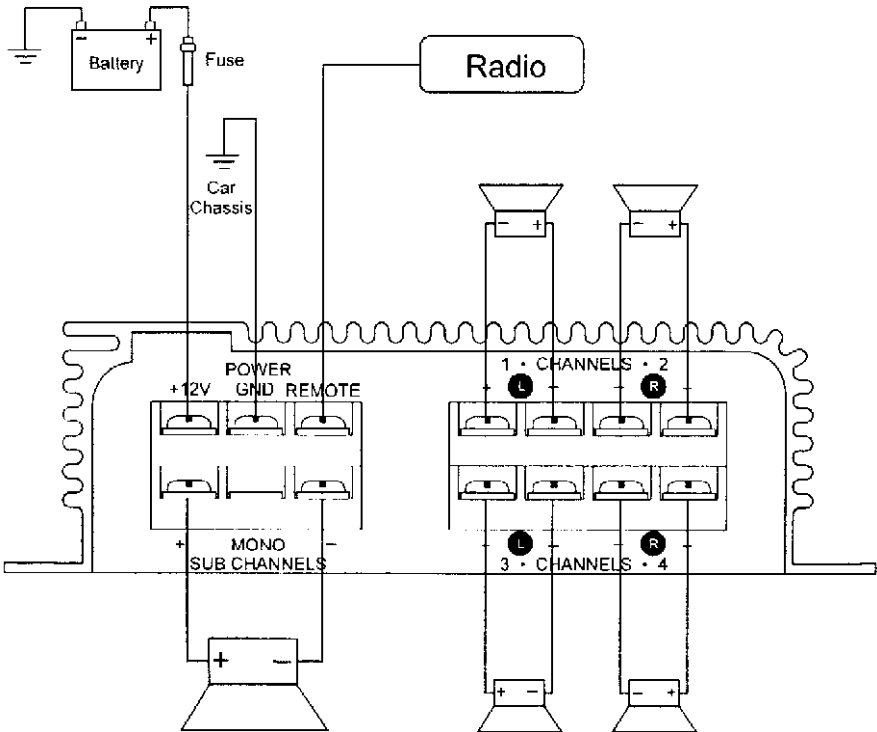
SIGNAL CABLE

To guarantee optimum performance, use a high-quality cable that will be easy to install and has minimal signal loss.

SPEAKER CABLE

Use a high quality, flexible, multi-strand cable for best performance and longevity.

WIRING DIAGRAM



PROTECTION CIRCUITRY

Your Soundstream amplifier is protected against both overheating and short circuits by means of the following circuits:

- Main power supply fuses.
- Speaker output protection.
- A fail-safe thermal protection circuit activating at WC.

NOTE: If you experience blown main power supply fuses, DO NOT increase values beyond the original values! Doing so will void your warranty and may damage your amplifier.

TROUBLESHOOTING

| <i>PROBLEM</i> | <i>CAUSE</i> |
|--|---|
| No sound and LED is not lit | <ul style="list-style-type: none">. no power or ground at amp. no remote turn-on signal• blown fuse "ear battery. blown amp power supply fuse |
| Repeatedly blown amp fuse, frequent activation of Thermal Protection Circuit | <ul style="list-style-type: none">▪ check speaker configuration—impedance may be less than 2 ohms stereo or 4 ohms mono. speaker or leads may be shorted• verify adequate amplifier ventilation |

SERVICE

Your Soundstream amplifier is protected by a limited warranty. Please read the enclosed warranty card.

SPECIFICATIONS

POWER OUTPUT

| MODEL | Power 4 ohms | Power 2 ohms |
|--------------|------------------------|------------------------|
| P203 | 35w x 2 + 70w x 1 | 50w x 2 + 100w x 1 |
| P205 | 35w x 4 + 70w x 1 | 50w x 4 + 100w x 1 |

| | |
|--------------------|----------------------------|
| THD | < 0.1% |
| Signal to Noise | > 90 dB |
| Frequency Response | 20 Hz to 20 kHz +/- 0.5 dB |
| Stereo Separation | > 90 dB |
| Damping | > 200 |
| Input Sensitivity | 100 mV - 2.5 V |
| Input impedance | 12 k ohms |

CROSSOVER SPECIFICATIONS

High Pass: 12 dB/octave, 60 - 240 Hz

Low Pass: 24 dB/octave, 30 120 Hz

DIMENSIONS

P203: 12" W x 5.5" D x 1.75" H

P205: 15" W x 5.5" D x 1.75" H

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