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Soundstream PF.6

Soundstream PF.6 Picasso Component Speaker Set User Manual

Model: PF.6

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Soundstream PF.6 Picasso Component 6.5" 2-Way 350W Speaker Set. Please read this manual thoroughly before attempting installation or operation to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING: This product can expose you to chemicals including Di(2-ethylhexyl)phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- Always disconnect the vehicle's battery before beginning any electrical installation.
- Ensure all wiring is properly insulated to prevent short circuits.
- Mount speakers securely to prevent them from becoming loose during vehicle operation.
- Avoid installing components in locations that obstruct vehicle operation or safety features.
- Consult a professional installer if you are unsure about any part of the installation process.

3. WHAT'S IN THE BOX

Your Soundstream PF.6 Picasso Component Speaker Set includes the following items:

- (2) 6.5" Component Speakers (Woofers)
- (2) 1" Pivoting Balanced Dome Tweeters
- (2) Passive Crossovers
- Mounting Hardware (screws, clips, brackets)

- Speaker Wire
- User Manual (this document)



Image 1: One 6.5-inch component speaker with its protective grille. This shows the main woofer unit.



Image 2: A pair of 6.5-inch component speakers (woofers) without their grilles, showing the cone and surround.



Image 3: Rear view of two 6.5-inch component speakers, showing the magnet structure and terminals.



Image 4: A pair of protective grilles for the 6.5-inch component speakers.



Image 5: Two passive crossovers with clear casings, showing the internal components and wiring terminals.



Image 6: A pair of 1-inch pivoting balanced dome tweeters.



Image 7: Tweeter mounting cups and adhesive pads for flush or surface mounting.



Image 8: Included speaker wire and various mounting hardware components like screws and clips.

4. SETUP AND INSTALLATION

4.1 General Wiring Guidelines

- Use appropriate gauge speaker wire for connections.
- Ensure correct polarity (+ to + and - to -) for all speaker and tweeter connections to the crossover and amplifier.
- Route wires away from sharp edges, moving parts, and heat sources.

4.2 Component Speaker (Woofers) Installation

1. **Choose Mounting Location:** Select a suitable location in your vehicle, typically door panels or kick panels, that can accommodate the 6.5-inch speaker depth and diameter.
2. **Prepare Opening:** If replacing existing speakers, ensure the opening matches the PF.6 speaker's dimensions. If creating a new opening, carefully mark and cut the hole.
3. **Connect Wiring:** Connect the speaker wires from the crossover's "Woofers" output to the terminals on the 6.5" speaker. Observe correct polarity.
4. **Mount Speaker:** Secure the speaker into the prepared opening using the provided screws. Ensure a

tight fit to prevent vibrations.

5. **Install Grille:** Attach the protective grille over the speaker if desired.

4.3 Tweeter Installation

The 1" pivoting balanced dome tweeters offer flexible mounting options:

- **Flush Mount:** Cut a circular hole in the desired location (e.g., dashboard, A-pillar) and insert the tweeter into the flush mount cup. Secure the cup from behind.
 - **Surface Mount:** Use the surface mount cups and adhesive pads to attach the tweeters directly to a flat surface.
1. **Choose Mounting Location:** Select a location that provides optimal sound imaging, typically higher up in the vehicle's cabin.
 2. **Connect Wiring:** Connect the tweeter wires from the crossover's "Tweeter" output to the terminals on the 1" tweeter. Observe correct polarity.
 3. **Mount Tweeter:** Install the tweeter using the chosen mounting method (flush or surface mount) and secure it.

4.4 Crossover Network Connection

The passive crossover network is crucial for directing the correct frequency ranges to the woofers and tweeters.

1. **Mount Crossover:** Find a secure, dry location for the crossover, away from excessive heat or moisture.
2. **Input Connection:** Connect the speaker wire from your amplifier's output to the "Input" terminals on the crossover.
3. **Woofers Output:** Connect the speaker wire from the crossover's "Woofers" terminals to your 6.5" component speaker.
4. **Tweeter Output:** Connect the speaker wire from the crossover's "Tweeter" terminals to your 1" tweeter.

Note: Ensure all connections are tight and secure to prevent signal loss or short circuits.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up

1. After completing all wiring, reconnect the vehicle's battery.
2. Turn on your car audio system at a low volume level.
3. Gradually increase the volume and listen for clear, balanced sound from all speakers.
4. Check for any distortion or unusual noises. If detected, immediately reduce volume and re-check wiring.

5.2 Power Handling

The Soundstream PF.6 speakers are rated for:

- **RMS Power:** 120 Watts
- **Peak Power:** 350 Watts

It is recommended to use an amplifier that provides RMS power output within the specified range to

prevent damage to the speakers and ensure optimal performance. Overpowering or underpowering speakers can lead to distortion and potential damage.

6. MAINTENANCE

The Soundstream PF.6 speakers require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check speaker mounts and wiring connections for tightness and signs of wear.
- **Environment:** While designed for automotive use, avoid exposing speakers to excessive moisture or extreme temperatures for prolonged periods. Note that the product is *Not Water Resistant*.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring connections. Amplifier not powered on or faulty. Head unit settings incorrect. Blown fuse in amplifier or vehicle.	Check all speaker, crossover, and amplifier connections for proper polarity and tightness. Verify amplifier power and functionality. Ensure head unit output is enabled and volume is up. Inspect and replace any blown fuses.
Distorted sound	Volume too high, causing clipping. Incorrect amplifier gain settings. Loose speaker cone or surround. Damaged speaker.	Reduce volume. Adjust amplifier gain settings according to manufacturer recommendations. Inspect speakers for physical damage. If damaged, speaker may need replacement.
Lack of bass or treble	Incorrect crossover wiring. One speaker or tweeter not functioning. Head unit equalizer settings.	Verify crossover connections for woofers and tweeters. Check individual speaker/tweeter connections. Adjust equalizer settings on your head unit.
Intermittent sound	Loose wiring connection. Faulty speaker wire.	Inspect and secure all wiring connections. Replace damaged speaker wire.

8. SPECIFICATIONS

Model Name	PF.6
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Speaker Type	Component
Speaker Size	6.5 Inches (Woofer), 1 Inch (Tweeter)
Power Handling (RMS)	120 Watts
Power Handling (Peak)	350 Watts
Impedance	4 Ohms
Frequency Response	20,000 Hz (Upper limit, system dependent)
Material	Polypropylene (Cone), Plastic
Mounting Type	Flush Mount (Tweeter)
Color	Black
Product Dimensions	15.5 x 8.5 x 4.25 inches
Item Weight	5.94 pounds
Water Resistance Level	Not Water Resistant

Note: Specifications are subject to change without notice for product improvement.

9. WARRANTY AND SUPPORT

9.1 Limited Warranty

Soundstream products are covered by a limited warranty against defects in materials and workmanship. The specific duration and terms of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For detailed warranty information, please refer to the warranty card included with your product or visit the official Soundstream website.

9.2 Customer Support

If you encounter any issues or have questions regarding your Soundstream PF.6 Picasso Component Speaker Set that are not covered in this manual, please contact Soundstream customer support or your authorized dealer.

Online Support: Visit the official Soundstream website for FAQs, product registration, and support contact information.

Dealer Support: Your purchasing dealer can often provide immediate assistance and troubleshooting.