

Soundstream SCX-4

Soundstream SCX-4 4.0 Farad Digital Capacitor Instruction Manual

Model: SCX-4

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Soundstream SCX-4 4.0 Farad Digital Capacitor. This device is designed to stabilize the electrical system in your vehicle, particularly for high-power car audio applications, by storing and rapidly discharging electrical energy. Proper installation and understanding of its functions are crucial for optimal performance and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Wear appropriate safety gear, including eye protection.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not expose the capacitor to moisture or extreme temperatures.
- Handle the capacitor with care; it stores a significant electrical charge even when disconnected.
- Consult a professional car audio installer if you are unsure about any part of the installation process.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Soundstream SCX-4 4.0 Farad Digital Capacitor Unit
- Mounting Hardware (screws, brackets)
- Resistor for initial charging (may be included or required separately)

4. FEATURES

The Soundstream SCX-4 Digital Capacitor offers the following features:

- **4.0 Farad Capacitance:** Provides substantial energy storage for demanding audio systems.
- **24VDC Surge Rated:** Designed to handle voltage fluctuations up to 24 volts DC.
- **PCB with Blue LED Display:** Integrated circuit board with a clear blue LED display for voltage monitoring.
- **Flashing LEDs:** Visual indicators for operational status.
- **Chrome Plated Finish:** Durable and aesthetically pleasing exterior.



Image 1: The Soundstream SCX-4 4.0 Farad Digital Capacitor. This image displays the chrome-plated cylindrical body of the capacitor, featuring black rectangular accents and a central black oval with the "SOUNDSTREAM" logo. One end shows a clear, ribbed cap, likely covering the terminals or a status indicator.

5. SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your capacitor. It should be installed as close as possible to the amplifier(s) it will be supporting, typically within 18-24 inches.

1. **Mounting:** Securely mount the capacitor using the provided hardware in a dry, well-ventilated area, away from heat sources and moving parts. Ensure the mounting location is robust enough to hold the capacitor's weight.
2. **Wiring Connections:**
 - Connect the positive (+) terminal of the capacitor to the positive (+) terminal of the amplifier.
 - Connect the negative (-) terminal of the capacitor to a clean, solid chassis ground point.
 - Connect the main power wire from the vehicle's battery to the positive (+) terminal of the capacitor. Ensure this wire is fused appropriately near the battery.
3. **Initial Charging:** Before connecting the capacitor directly to the power system, it must be charged slowly to prevent damage.
 - Connect a resistor (typically 1000 Ohm, 1/2 Watt or similar, often supplied with the capacitor) between the positive (+) terminal of the capacitor and the positive (+) power wire from the

battery.

- Allow several minutes for the capacitor to charge. The digital voltage display will gradually rise.
- Once the voltage display matches the vehicle's battery voltage (approximately 12-14.4V), remove the resistor.
- Immediately connect the positive (+) power wire directly to the capacitor's positive (+) terminal.

4. **Remote Turn-On (if applicable):** Some capacitors include a remote turn-on terminal. If present, connect this to the remote turn-on output of your head unit or amplifier. This allows the capacitor's display to activate when the audio system is on.

5. **Reconnect Battery:** Once all connections are secure and verified, reconnect the vehicle's negative battery terminal.

6. OPERATING INSTRUCTIONS

The Soundstream SCX-4 operates automatically once properly installed and charged.

- **Digital Voltage Display:** The blue LED display will show the current system voltage. This provides real-time monitoring of your vehicle's electrical system.
- **Flashing LEDs:** These indicators typically signify the capacitor is actively charging or discharging, responding to power demands from your amplifier.
- **Automatic Sleep Mode:** The unit may enter a sleep mode after a period of inactivity (e.g., when the vehicle is off and no input voltage is detected) to conserve power. It will reactivate upon detecting voltage.

7. MAINTENANCE

The Soundstream SCX-4 capacitor requires minimal maintenance.

- **Regular Inspection:** Periodically check all wiring connections to ensure they remain tight and free from corrosion.
- **Cleaning:** Keep the capacitor unit clean and free of dust and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive materials.
- **Environmental Conditions:** Ensure the capacitor remains in a dry environment and is not exposed to extreme heat or cold, which can affect its performance and lifespan.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Capacitor display is off.	No power, loose connection, sleep mode.	Check power connections. If in sleep mode, it will activate with system use.
Voltage display is incorrect.	Poor ground connection, faulty wiring.	Verify ground connection. Inspect all wiring for damage or loose terminals.
Capacitor not holding charge.	Internal fault, improper initial charge.	Ensure proper initial charging procedure was followed. If issue persists, contact support.

Problem	Possible Cause	Solution
Headlights dimming persists.	Capacitor too small for system, insufficient charging system.	Consider a higher capacitance unit or upgrading the vehicle's alternator/battery.

9. SPECIFICATIONS

- **Brand:** Soundstream
- **Model:** SCX-4
- **Capacitance:** 4.0 Farad
- **Maximum Voltage:** 24 Volts DC
- **Operating Voltage:** 24 Volts DC
- **Product Dimensions:** 14.5 x 9 x 3.5 inches
- **Item Weight:** 3.5 pounds
- **Material:** Aluminum
- **Color:** Silver (Chrome Plated)
- **Display:** Blue LED Digital Voltage Display
- **UPC:** 709483026216, 368298573263

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the warranty card included with your product or visit the official Soundstream website. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: Soundstream