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› Instruction Manual for CS BATTERY Replacement Battery for Sokkia Total Stations

CS BATTERY 7380 46

Instruction Manual

Replacement Battery for Sokkia Total Stations and GPS Receivers

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your new CS BATTERY replacement battery. Please read this manual thoroughly before using the battery to ensure proper operation, maximize battery life, and prevent potential hazards. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The CS BATTERY replacement battery is a high-quality Li-ion rechargeable battery pack designed to power various Sokkia total stations and GPS receivers. It offers reliable performance and is manufactured with over 15 years of battery manufacturing experience.





Figure 2.1: Top view of the CS BATTERY replacement battery. This image displays the battery's model number (SDL30), capacity (3400mAh), voltage (DC 7.4V), and energy rating (25.16Wh). It also shows various compliance marks such as CE, UKCA, and a caution label regarding disassembly and temperature limits.



Figure 2.2: Angled view of the CS BATTERY replacement battery. This perspective highlights the sleek, black casing and compact design of the battery, suitable for portable devices.

3. COMPATIBILITY

This replacement battery is compatible with a wide range of Sokkia devices. Please verify your device's model number or original battery part number against the lists below.

3.1 Compatible Device Models:

- Sokkia SET 200, SCT6 Total Stations, SDL30, SDL50
- GIR1600 GPS Receiver
- Sokkia SET300, SET500, SET530, SET600, SET630
- SHC-336, SHC-336 data collector
- Sokkia SET 230R, SET 330R, SET 530R, SET 630R
- Sokkia SET 230R3, SET 330R3, SET 530R3, SET 630R3
- Sokkia SET 230RK, SET 330RK, SET 530RK, SET 630RK
- Sokkia SET 230RK3, SET 330RK3, SET 530RK3

- Sokkia SET 210, SET 210K, SET 310K, SET 510K, SET 610K
- MONMOS NET1 200 3D STATIONS
- STRATUS L1 GPS
- Sokkia SET310, SET510, SET610, SET330, SET530, SET630
- SDL30M 10, SDL30M 30R
- NET1200
- DL30, RCP4-5 Controllers
- GRS1700 CSX
- Sokkia SET250RX, SET350RX, SET550RX, SET650RX
- SDL30 Digital Level, SDL30M Digital Level, SDL50 Digital Level
- LDT520 Laser Digital Theodolite
- GIR1600 DGPS Receiver

3.2 Compatible Battery Part Numbers:

- BDC46, BDC46A, BDC46B, BDC46C
- 7380-46
- SDL30
- 40200040

If you are unsure about compatibility, please contact customer support with your device details or pictures of your original battery.

4. SPECIFICATIONS

Attribute	Value
Model Number	7380 46 (also known as SDL30)
Battery Type	Li-ion (Lithium-ion)
Voltage	7.4V
Capacity	3400mAh
Rate / Energy	25.16Wh
Net Weight	103.0g / 3.63oz
Gross Weight	173g / 6.10oz
Dimensions (L x W x H)	70.50 x 38.30 x 20.10mm
Certifications	ROSH, CE, UL



Figure 4.1: Side and top view of the battery. This image provides a clearer view of the battery's form factor and the location of its electrical contacts, which are crucial for proper fit and function in compatible devices.

5. SETUP AND INSTALLATION

Follow these steps to safely install the replacement battery into your compatible Sokkia device.

1. **Power Off Device:** Ensure your Sokkia total station or GPS receiver is completely powered off before attempting battery replacement.
2. **Locate Battery Compartment:** Refer to your device's original manual to locate and open the battery compartment. This is typically on the side or bottom of the device.
3. **Remove Old Battery:** Carefully remove the old battery from the compartment. Note its orientation to ensure correct installation of the new battery.
4. **Insert New Battery:** Insert the CS BATTERY replacement battery into the compartment, aligning it with the contacts and ensuring it clicks securely into place. Do not force the battery.
5. **Close Compartment:** Close the battery compartment cover firmly.
6. **Initial Charge:** It is recommended to fully charge the new battery before its first use. Refer to the "Operating Instructions" section for charging details.



Figure 5.1: Top-down view of the battery. This image clearly shows the battery's connection terminals, which must align correctly with the device's contacts during installation.

6. OPERATING INSTRUCTIONS

This battery is designed for seamless integration with your compatible Sokkia device. Its operation is primarily managed by the device itself.

6.1 Charging the Battery:

- Always use the original charger or a compatible charger specifically designed for your Sokkia device and this battery model.
- Connect the charger to your device and a power source. The device's charging indicator will typically show the charging status.
- Allow the battery to charge fully before disconnecting. Overcharging is prevented by the battery's built-in protection circuits.

6.2 Battery Usage:

- The battery will power your device as long as it has sufficient charge.
- If your device's operating time significantly reduces, it indicates the battery needs recharging or replacement.
- This battery features no memory effect, allowing you to charge it at any time without affecting its long-term capacity.

7. MAINTENANCE

Proper maintenance extends the life of your battery and ensures optimal performance.

- **Storage:** If storing the battery for an extended period, store it in a cool, dry place (ideally between 0°C and 25°C or 32°F and 77°F) with approximately 50% charge. Avoid extreme temperatures.
- **Cleaning:** Keep the battery contacts clean and free of dust or debris. Use a dry, soft cloth to wipe them if necessary.
- **Avoid Full Discharge:** While the battery has protection, try to avoid completely draining the battery before recharging, as this can reduce overall lifespan over time.
- **Regular Use:** For best results, use and recharge the battery regularly.

8. TROUBLESHOOTING

If you encounter issues with your battery, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Battery not charging.	Incorrect charger, poor connection, faulty charger/device.	Ensure charger is compatible and properly connected. Try charging with another known good charger or device if available. Clean battery contacts.
Device not powering on with new battery.	Battery not fully charged, incorrect installation, battery fault.	Ensure battery is fully charged. Re-install battery, checking orientation and secure fit. Verify device compatibility.
Battery drains quickly.	High power consumption by device, battery nearing end of life.	Reduce device power consumption (e.g., screen brightness). If the battery is old, it may need replacement.
Battery feels hot during use/charging.	Normal operation (slight warmth), overcharging, internal fault.	Slight warmth is normal. If excessively hot, disconnect immediately and contact support. Ensure proper ventilation during charging.

If the problem persists after trying these solutions, please contact customer support.

9. SAFETY INFORMATION

Your safety is paramount. Please adhere to the following safety guidelines when handling and using the battery.

- **Do not disassemble:** Do not attempt to disassemble, open, or service the battery pack. This can lead to electric shock, fire, or explosion.
- **Avoid short circuits:** Do not short-circuit the battery terminals. Avoid contact with metal objects that could bridge the terminals.
- **Temperature:** Do not expose the battery to extreme temperatures (above 40°C/105°F or below 0°C/32°F). Avoid direct sunlight, heat sources, or very cold environments.
- **Disposal:** Do not dispose of the battery in fire or water. Dispose of used batteries according to local regulations for lithium-ion batteries.

- **Impact:** Do not drop, puncture, or subject the battery to strong impacts.
- **Moisture:** Keep the battery dry. Do not expose it to water or other liquids.
- **Children:** Keep batteries out of reach of children.
- **Swelling/Leakage:** If the battery appears swollen, leaks, or shows any signs of damage, discontinue use immediately and dispose of it safely.

10. WARRANTY AND SUPPORT

This CS BATTERY product is manufactured with high-quality standards and comes with certifications including ROHS, CE, and UL, ensuring its quality and safety.

For any questions, concerns, or professional suggestions regarding your battery, please do not hesitate to contact our customer support. We aim to reply within 24 hours.

Contact Support: Please refer to the seller's contact information on the platform where you purchased the product or visit the CS BATTERY official website for support details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question