

Sokkia b30 level manual Printable PDF

Sokkia B30 Level Manual

Sokkia B30 Level Manual: A Detailed Guide for Optimal Use and Maintenance

sokkia b30 level manual is an essential resource for anyone looking to get the most out

of their Sokkia B30 automatic level. Whether you're a professional surveyor, a construction worker, or a hobbyist interested in precision leveling instruments, understanding the manual and its practical applications can significantly enhance your measurement accuracy and ease of use. In this article, we will delve into the key aspects of the Sokkia B30 level manual, exploring its features, operational tips, and maintenance guidelines to help you maximize the performance of your leveling equipment.

Understanding the Sokkia B30 Level

Before diving into the manual itself, it's helpful to get a clear picture of what the Sokkia B30 level is and why it's widely favored in various fields. The Sokkia B30 is an automatic optical level designed for precise and reliable leveling tasks. It boasts a robust design, user-friendly operation, and excellent optical clarity, making it suitable for construction sites, land surveying, and civil engineering projects.

Key Features of the Sokkia B30 Level

The manual provides a thorough overview of the instrument's capabilities, but some standout features include:

****Automatic compensator:**** This feature helps maintain a perfectly horizontal line of sight even if the instrument is slightly tilted, reducing leveling errors.

****High-quality optics:**** The instrument typically includes a 32x magnification, allowing surveyors to read measurements accurately from a distance.

****Durability:**** The Sokkia B30 is built to withstand harsh working environments, with weather-resistant casing that protects internal components.

****Easy adjustments:**** The manual highlights how leveling screws and focusing mechanisms can be quickly and easily adjusted for precise readings.

Understanding these features through the manual ensures users can leverage the instrument to its full potential.

How to Use the Sokkia B30 Level: Insights from the Manual

The Sokkia B30 level manual is designed to walk users through the setup and operation step-by-step, ensuring even beginners can handle the instrument confidently.

Setting Up the Instrument

Proper setup is crucial for accurate measurements. According to the manual, the process starts with mounting the level on a tripod. Here are some tips extracted from the manual:

****Choose a stable tripod:**** Stability minimizes vibrations and movement during measurement.

****Level the tripod head:**** Use the tripod's own leveling bubbles before attaching the Sokkia B30.

****Mount the instrument:**** Secure the instrument on the tripod carefully to avoid

misalignment.

****Use the foot screws:**** The manual emphasizes adjusting the foot screws to center the circular bubble on the instrument for rough leveling before fine-tuning with the compensator.

Focusing and Reading Measurements

Once the instrument is set up, the manual guides the user on focusing the telescope and taking readings:

****Focus the eyepiece:**** This ensures the crosshairs are sharp and clear.

****Focus on the leveling staff:**** Adjust the focusing knob until the staff is in clear view.

****Read the measurements:**** The manual advises reading the staff scale at the horizontal crosshair, ensuring the line of sight is level for accuracy.

Following these steps as outlined in the manual reduces human errors and enhances data reliability.

Maintenance and Care According to the Sokkia B30 Level Manual

Proper maintenance is critical for prolonging the life of the Sokkia B30 level and maintaining its precision. The manual provides several useful recommendations for care and upkeep.

Cleaning the Instrument

****Use a soft brush or cloth:**** Dust and dirt can accumulate on the lenses and outer

casing, so gently cleaning these parts regularly is advised.

****Avoid harsh chemicals:**** The manual warns against using solvents that could damage the optics or paint.

****Protect the optics:**** When not in use, keep the instrument in its case to prevent scratches or dirt buildup.

Storage and Handling Tips

The manual stresses careful handling to avoid mechanical shocks:

****Store in a dry place:**** Moisture can damage internal components, so a dry environment is preferred.

****Avoid extreme temperatures:**** Both excessive heat and cold can affect instrument calibration.

****Transport carefully:**** Use padded cases to protect the level during transportation.

Troubleshooting Common Issues

Even with careful use, users might encounter occasional problems. The Sokkia B30 level manual anticipates these and suggests practical solutions.

Compensator Problems

If the automatic compensator isn't functioning properly, the manual suggests:

Checking for obstructions or debris inside the instrument.

Gently tapping the instrument to free a stuck compensator.

Consulting a professional technician if the problem persists.

Optical Clarity Issues

Blurry or unclear views may be due to:

Dirty lenses (clean as recommended).

Improper focusing (revisit focusing steps).

Internal lens misalignment, which may require professional servicing.

Why the Sokkia B30 Level Manual is Essential for Users

While the Sokkia B30 level is designed to be intuitive, the manual is invaluable for mastering this precision instrument. It not only explains operational steps but also provides insight into the science behind leveling and the importance of accuracy in measurements. For professionals, adhering to the manual can prevent costly errors on the job site, improve workflow efficiency, and extend the instrument's lifespan. Beginners benefit from the clear instructions that build confidence and competence in using sophisticated surveying equipment.

Additional Tips for Maximizing Accuracy

****Regular calibration:**** The manual recommends periodic checks to ensure the instrument's accuracy remains within specified tolerances.

****Consistent technique:**** Always follow the steps for setup and measurement to avoid variability.

****Environmental awareness:**** Wind, uneven surfaces, and vibrations can affect readings, so choose measurement sites carefully.

By integrating these tips with guidance from the Sokkia B30 level manual, users can

achieve reliable and repeatable results.

Navigating the Sokkia B30 level manual unlocks the full potential of this trusted leveling instrument. Whether setting up for the first time or troubleshooting a minor hiccup, the manual serves as a comprehensive companion. Embracing its instructions not only enhances measurement precision but also contributes to the long-term care and reliability of the Sokkia B30 level.

Question

Answer

What is the Sokkia B30 Level

Manual used for?

The Sokkia B30 Level Manual is used for operating and understanding the features of the Sokkia B30 automatic level, which is commonly utilized in surveying and construction for measuring height differences and leveling tasks.

How do I properly set up the

Sokkia B30 automatic level

according to the manual?

According to the Sokkia B30 Level Manual, you should

first securely mount the level on a tripod, then roughly

level the instrument using the tripod legs. After that, use

the circular bubble to fine-tune the leveling by adjusting the foot screws until the bubble is centered.

What maintenance tips are recommended in the Sokkia B30 Level Manual?

The manual recommends keeping the instrument clean, avoiding exposure to extreme weather conditions, regularly checking for mechanical damage, and storing it in its protective case when not in use to ensure longevity and accurate performance.

How does the automatic compensator in the Sokkia B30 work as explained in the manual?

The automatic compensator in the Sokkia B30 level automatically adjusts the line of sight to be horizontal by counteracting small tilts of the instrument, which ensures accurate leveling measurements without manual recalibration.

Where can I find a digital

copy of the Sokkia B30 Level

Manual?

A digital copy of the Sokkia B30 Level Manual can typically be found on the official Sokkia website under the support or downloads section, or through authorized distributors' websites and surveying equipment forums.

What are the common

troubleshooting steps

mentioned in the Sokkia B30

Level Manual?

Common troubleshooting steps include checking that the instrument is properly leveled, ensuring the compensator is functioning, verifying the optical clarity of the telescope, cleaning lenses if necessary, and making sure all screws and adjustments are secure.

Sokkia B30 Level Manual: A Detailed Professional Review and Guide

sokkia b30 level manual serves as a crucial resource for surveyors, construction

professionals, and engineering technicians who rely on precision leveling instruments. The Sokkia B30 is a well-regarded automatic level, known for its reliability, accuracy, and ergonomic design. Understanding its manual and operational intricacies is essential for

maximizing its efficiency and longevity on the field. This article delves into the Sokkia B30 level manual, exploring its features, setup procedures, maintenance tips, and how it stands against comparable instruments in the market.

Understanding the Sokkia B30 Level and Its Manual

The Sokkia B30 is an automatic optical level widely used in surveying and construction. The device is designed to provide accurate horizontal plane measurements, crucial for site leveling, foundation work, and other precision tasks. The Sokkia B30 level manual provides comprehensive instructions on assembly, calibration, and operation, ensuring users can extract the highest performance from the instrument.

The manual is structured to guide both beginners and experienced professionals through step-by-step procedures, from unpacking to troubleshooting. It typically includes detailed diagrams, adjustment methods, and care instructions. For professionals who prioritize accuracy and ease of use, this manual is indispensable.

Key Features Highlighted in the Sokkia B30 Level Manual

The manual emphasizes several features that make the Sokkia B30 a preferred choice among automatic levels:

Automatic Compensator: The B30's built-in compensator ensures the line of sight

1. remains horizontal even if the instrument is slightly tilted, improving accuracy and reducing setup time.

Durable Build: The device is designed with robust materials to withstand harsh

2.

field conditions, as noted in the manual's maintenance section.

Easy-to-Read Optics: High-quality optics with 32x magnification provide clear,

3.

sharp images, facilitating precise readings.

Adjustable Focus: The manual explains how to fine-tune the focus ring to achieve

4.

optimal clarity on leveling rods or targets.

360-Degree Horizontal Circle: Allows for comprehensive angle measurement,

5.

essential for complex site layouts.

Setting Up the Sokkia B30 Level: Insights from the Manual

One of the vital aspects covered extensively in the sokkia b30 level manual is the correct setup procedure. Proper setup directly impacts measurement accuracy, so the manual dedicates significant attention to tripod positioning, instrument mounting, and initial adjustments.

Step-by-Step Setup Process

Select a Stable Tripod Location: The manual advises choosing firm ground to

1.

minimize vibrations and shifts during measurements.

Mount the Instrument Securely: The B30 is fixed on the tripod using a threaded

2.

screw, ensuring stability.

Leveling the Instrument: Utilizing the circular bubble level, the user makes

3.

coarse leveling adjustments by manipulating the tripod legs.

Fine Leveling with Foot Screws: The manual details how to use the leveling

4.

screws to center the bubble precisely, a critical step before taking measurements.

Compensator Check: The manual recommends verifying the automatic

5.

compensator's function by tilting the instrument slightly and observing the reticle's stability.

Following these steps as outlined in the sokkia b30 level manual helps ensure that measurements are both accurate and repeatable, reducing errors caused by instrument misalignment.

Maintenance and Troubleshooting According to the Manual

Proper maintenance extends the life of the Sokkia B30 and safeguards the quality of its readings. The manual provides guidelines for routine care and troubleshooting common issues.

Maintenance Guidelines

Cleaning Optics: Use a soft brush or lens cloth to remove dust and debris,

1.

avoiding harsh chemicals that could damage lens coatings.

Protecting the Instrument: Store the level in its protective case when not in use,

2.

shielded from moisture and extreme temperatures.

Periodic Checks: Regularly inspect the compensator function and calibration as

3.

recommended in the manual to catch any drift early.

Troubleshooting Common Problems

The sokkia b30 level manual also addresses typical issues such as:

Unstable Bubble Level: Could indicate tripod instability or compensator

1.

malfunction; the manual advises re-leveling or professional servicing.

Blurry Optics: Usually resolved by cleaning or adjusting the focus ring as per

2.

manual instructions.

Compensator Failure: If the reticle does not stabilize, the manual suggests

3.

checking for shocks or drops that may have damaged internal components.

Comparison with Other Automatic Levels

While the Sokkia B30 is a solid entry-level automatic level, understanding how it compares with other models is useful for professionals considering their options.

Sokkia B30 vs. Topcon AT-B Series

Both instruments offer automatic compensators and similar magnification. However, the Topcon AT-B series often boasts a slightly higher precision level and advanced features like longer compensator ranges. The sokkia b30 level manual highlights its simplicity and durability, making the B30 more user-friendly for those new to automatic levels.

Sokkia B30 vs. Leica NA Series

Leica NA levels typically come at a higher price point but offer superior optics and more refined compensator mechanisms. The B30, as outlined in its manual, prioritizes ease of use and ruggedness over advanced features, positioning it as a practical choice for cost-conscious users requiring dependable performance.

Utilizing the Sokkia B30 Level Manual for Optimal Performance

The sokkia b30 level manual is more than just an instruction booklet; it is a comprehensive guide that enhances the operator's understanding of the instrument. By thoroughly studying the manual, users can optimize setup speed, measurement accuracy, and instrument care.

Many professionals report that adherence to manual procedures reduces downtime and

increases confidence in the data collected. Furthermore, the manual's troubleshooting section empowers users to resolve minor issues independently, minimizing the need for costly repairs or service calls.

In the digital age, accessing the sokkia b30 level manual online has become standard practice. Several professional forums and manufacturer websites host downloadable versions, often supplemented by video tutorials and user reviews, which enrich the learning experience.

In summary, the sokkia b30 level manual remains an essential tool for anyone working with this model. Its thorough explanations and practical guidance contribute significantly to effective surveying workflows, proving that well-crafted documentation is as vital as the instrument itself.

sokkia b30 manual, sokkia b30 level instructions, sokkia b30 user guide, sokkia b30 leveling manual, sokkia b30 operation guide, sokkia b30 surveyor level manual, sokkia b30 setup instructions, sokkia b30 calibration guide, sokkia b30 level troubleshooting, sokkia b30 field manual

Sokkia 610 manual

sokkia 610 manual is an essential resource for surveyors, engineers, and construction professionals who utilize the Sokkia 610 total station. This comprehensive manual provides detailed instructions on setup, operation, troubleshooting, and maintenance, ensuring users can maximize the device's capabilities for precise measurements and efficient project completion. Whether you are a beginner or an experienced technician, understanding how to navigate the Sokkia 610 manual is crucial for achieving accurate survey results and prolonging the lifespan of your equipment.

Overview of the Sokkia 610 Total Station

The Sokkia 610 is a versatile and high-precision total station designed for a wide range of surveying and construction applications. It combines electronic distance measurement (EDM), angle measurement, and data collection in a compact, ergonomic design. The device's features include a digital display, onboard data storage, and compatibility with various accessories, making it a popular choice among professionals.

To effectively operate the Sokkia 610, users should familiarize themselves with the contents of the **sokkia 610 manual**. This manual covers everything from initial setup to advanced measurement techniques, ensuring accurate and reliable results.

Key Sections of the Sokkia 610 Manual

The manual is organized into several key sections, each focusing on specific aspects of device operation and maintenance. Understanding these sections will help users troubleshoot issues quickly and perform routine procedures confidently.

1. Device Setup and Initialization

Proper setup is fundamental to obtaining precise measurements. The manual provides step-by-step instructions on:

- Unpacking and inspecting the device for any damage during transit.
- Assembling the tripod and mounting the total station securely.
- Leveling the instrument using built-in bubble levels or electronic leveling functions.
- Powering on the device and initializing the internal system.

Tips for optimal setup:

- Always set up on firm, stable ground.
- Use the built-in leveling bubble or electronic level for accuracy.
- Ensure the device is free from dust and moisture before operation.

2. Basic Operations and Measurement Procedures

This section guides users through routine tasks such as:

- Capturing horizontal and vertical angles.
- Measuring distances using EDM technology.
- Recording measurement data into internal memory or external storage devices.
- Using the keypad and menus for quick access to functions.

Important:

- Follow the manual's instructions for targeting and aiming the instrument accurately.
- Confirm calibration status before starting measurements.

3. Data Management and Transfer

Efficient data handling is critical. The manual explains how to:

- Save measurements within the device's memory.
- Export data via USB, Bluetooth, or other compatible interfaces.
- Use dedicated software for data processing and mapping.
- Manage stored data, delete unnecessary files, and back up survey information.

Note: Always keep firmware and software updated following the manual's recommendations to ensure compatibility and security.

4. Maintenance and Troubleshooting

Regular maintenance extends the lifespan of your Sokkia 610. The manual covers:

- Cleaning procedures for lenses, display screens, and external surfaces.
- Battery care and replacement guidelines.
- Calibration checks and procedures to maintain measurement accuracy.
- Common issues, such as error messages or connectivity problems, and their solutions.

Troubleshooting tips include:

- Resetting the device to factory settings if calibration errors persist.
- Ensuring all connections are secure and free of dirt.
- Consulting the manual's error code table for specific issues.

Using the Sokkia 610 for Precise Surveying

The manual emphasizes best practices for achieving high-precision results with the Sokkia 610. These include:

1. Proper Targeting and Alignment

Ensuring the instrument is accurately aimed at the target is vital. The manual describes:

- Using optical or electronic sights for alignment.
- Applying the "Fine" or "Refine" functions for precise targeting.
- Employing reflective or prism targets depending on measurement distance.

2. Calibration and Adjustment Procedures

Maintaining calibration is critical. The manual provides instructions for:

- Performing daily calibration checks.
- Using calibration tools or software provided by Sokkia.
- Adjusting the device if measurement deviations are detected.

3. Advanced Measurement Techniques

For complex surveying tasks, the manual discusses:

- Station setup with multiple instrument setups.
- Coordinate computation and triangulation.
- Implementing stakeout and layout functions.

Frequently Asked Questions About the Sokkia 610 Manual

Q: Where can I find the official *sokkia 610 manual*?

Official manuals are typically available on Sokkia's website or through authorized dealers. Ensure to download the latest version for accurate instructions.

Q: How do I update the firmware of my Sokkia 610?

The manual includes a section on firmware updates, which involves downloading the latest firmware from Sokkia's official site and following the step-by-step update procedures described in the manual.

Q: What should I do if my device shows an error code?

The manual contains an error code table that explains each code and provides troubleshooting steps. If issues persist, contact Sokkia customer support.

Q: How often should I calibrate my Sokkia 610?

Routine calibration depends on usage frequency and environmental conditions. The manual recommends calibration before critical projects or at regular intervals specified in the maintenance section.

Conclusion: Mastering Your Sokkia 610 with the Manual

The **sokkia 610 manual** is an indispensable guide for ensuring accurate measurements, efficient workflow, and long-term durability of your total station. By thoroughly understanding its sections—from setup and operation to maintenance and troubleshooting—users can optimize the device's performance and achieve professional surveying results.

Always keep the manual accessible during operations, and do not hesitate to consult it whenever questions arise. Proper training and adherence to the manual's guidelines will help you unlock the full potential of your Sokkia 610 total station, making your surveying projects more precise, efficient, and reliable.

Remember: Regularly review the manual updates and maintenance procedures to stay current with best practices and technological advancements related to your Sokkia 610 total station.

Sokkia 610 Manual: The Ultimate Guide to Mastering Your Total Station

When it comes to precision surveying and construction measurement, the Sokkia 610 manual serves as an essential resource for operators seeking to maximize their device's capabilities. Whether you're a seasoned surveyor or a newcomer to total station technology, understanding how to interpret and utilize the manual can greatly enhance your efficiency, accuracy, and confidence on the field. This comprehensive guide aims to break down the key aspects of the Sokkia 610 manual, providing clear explanations, practical tips, and structured insights to help you navigate its content with ease.

Introduction to the Sokkia 610 Total Station

The Sokkia 610 is a highly reliable total station designed for diverse surveying applications. Combining advanced electronic measurement with user-friendly features, it supports tasks such as topographic surveys, construction layout, and land boundary mapping. The manual accompanying this device is your roadmap to harnessing its full potential, from setup to data collection and troubleshooting.

Understanding the Structure of the Sokkia 610 Manual

The manual is typically organized into several key sections, each serving a distinct purpose:

- Introduction and Safety Information
 - Overview of the device
 - Safety precautions to prevent damage and ensure operator safety
- Device Components and Accessories
 - Diagrams of the total station parts
 - List of compatible accessories
- Setup and Initialization
 - Unpacking instructions
 - Tripod setup and leveling procedures
 - Powering on and initial calibration
- Basic Operations
 - How to perform measurements
 - Using the targeting and aiming features
 - Data storage and retrieval

- Advanced Features
 - Coordinate measurement functions
 - Stakeout and point-to-point measurements
 - Data transfer methods (USB, Bluetooth, etc.)
- Maintenance and Troubleshooting
 - Routine care tips
 - Common issues and their solutions
- Appendices
 - Technical specifications
 - Software update procedures
 - Contact information for support

Key Features Explained in the Manual

Precise Measurement Techniques

The manual provides step-by-step guidance on:

- Proper aiming and focusing
- Using the EDM (Electronic Distance Measurement) system
- Ensuring measurement accuracy through calibration

Data Management

Learn how to:

- Store measurement data correctly
- Export data to external devices
- Use internal memory features effectively

Device Calibration & Maintenance

Regular calibration is critical for maintaining accuracy. The manual details:

- How to perform calibration checks
- When and how to send the device for professional calibration
- Cleaning and maintenance routines

Step-by-Step Guide to Setting Up Your Sokkia 610

- Unpacking and Inspection
 - Carefully remove the total station and accessories
 - Verify all components are present as per the packing list
 - Check for any damage during transit
- Tripod and Mounting
 - Extend tripod legs evenly
 - Attach the total station securely to the tripod mount
 - Ensure the device is stable and level
- Leveling the Instrument
 - Use the built-in bubble level or electronic leveling feature
 - Adjust tripod legs to position the instrument approximately
 - Fine-tune leveling screws to achieve precise horizontal level
- Powering On and Initialization
 - Insert batteries or connect power supply
 - Turn on the device using the power button

- Follow on-screen prompts for initial setup, including date, time, and language preferences

Operating the Sokkia 610: Basic Measurement Procedures

A. Targeting and Aiming

- Use the telescope for precise aiming
- Engage the electronic or manual targeting features
- Confirm the target alignment using crosshairs or laser aiming if available

B. Taking Measurements

- Focus on the target object
- Press the measurement button
- Wait for the device to record the measurement and display the data

C. Recording and Saving Data

- Save measurements to internal memory
- Assign point names or codes for easy identification
- Review stored data via the menu options

Advanced Functionalities: Enhancing Your Surveying Workflow

Coordinate Measurement and Stakeout

- Input known coordinate points from a database
- Use the device's stakeout mode to locate points in the field
- Confirm positions with real-time feedback

Data Transfer and Integration

- Connect to a computer or external device via USB or Bluetooth
- Use dedicated software to import/export data
- Update device firmware or software as recommended in the manual

Using Software Features

- Programming measurement sequences
- Automating repetitive tasks
- Generating reports directly from the device

Maintenance, Troubleshooting, and Best Practices

Routine Maintenance

- Keep lenses and sensors clean using soft cloths
- Regularly check battery health
- Store the device in a protective case when not in use

Troubleshooting Common Issues

- Device not powering on: Check battery installation and charge levels
- Inaccurate measurements: Perform calibration and leveling checks
- Communication errors: Verify connection settings and cable integrity

When to Seek Professional Service

- Persistent calibration errors
- Hardware malfunctions beyond simple fixes
- Software updates requiring technical support

Tips for Maximizing the Use of Your Sokkia 610

- Always familiarize yourself with the latest manual updates or firmware releases
- Perform routine calibration before each day's work
- Use quality tripods and stable mounting surfaces
- Practice targeting and measurement techniques regularly
- Maintain detailed logs of calibration and maintenance activities

Conclusion: Unlocking the Full Potential of Your Sokkia 610

Mastering the Sokkia 610 manual is crucial for ensuring accurate, efficient, and reliable surveying operations. By understanding each section—from setup to advanced features—you can significantly improve your workflow and data quality. Remember that regular maintenance, proper calibration, and adherence to safety protocols are key to extending your device's lifespan and performance. With this guide, you're well-equipped to navigate the manual confidently and harness the full capabilities of your Sokkia 610 total station for all your surveying needs.

Question Where can I find the official Sokkia 610 manual? You can download the official Sokkia 610 manual from the Sokkia website's support or downloads section or contact authorized Sokkia distributors for a copy. **What are the key features covered in the Sokkia 610 manual?** The manual details features such as setup procedures, calibration, data collection, troubleshooting, and maintenance instructions for the Sokkia 610 total station. **How do I perform calibration on the Sokkia 610 using the manual?** The manual provides step-by-step instructions on calibrating the Sokkia 610, including leveling procedures, electronic calibration, and ensuring measurement accuracy. **Can I find troubleshooting tips for common issues in the Sokkia 610 manual?** Yes, the manual includes troubleshooting sections that address common problems like communication errors, incorrect measurements, and device errors with solutions. **What maintenance routines are recommended in the Sokkia 610 manual?** The manual suggests regular cleaning, battery checks, calibration verification, and software updates to maintain optimal device performance. **Is there a section in the Sokkia 610 manual for software updates and data management?** Yes, it provides guidance on updating firmware/software, transferring data to computers, and managing stored measurements. **How do I reset the Sokkia 610 to factory settings according to the manual?** The manual details the reset process, typically involving menu navigation and confirmation steps to restore default factory settings. **Are there safety precautions in the Sokkia 610 manual I should be aware of?** Yes, the manual emphasizes safety precautions such as proper handling, avoiding exposure to extreme conditions, and electrical safety guidelines.

Related keywords: Sokkia 610 manual, Sokkia 610 user guide, Sokkia 610 instruction manual, Sokkia 610 datasheet, Sokkia 610 specifications, Sokkia 610 troubleshooting, Sokkia 610 calibration, Sokkia 610 parts list, Sokkia 610 maintenance, Sokkia 610 software

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