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## BAANOOL BN-303G (2G)

# BAANOOL BN-303G GPS Tracker User Manual

Model: BN-303G (2G) | Brand: BAANOOL

## INTRODUCTION

The BAANOOL BN-303G is a 2G GPS tracker designed for vehicles, offering intelligent management and real-time tracking capabilities. This manual provides detailed instructions for the proper installation, operation, and maintenance of your device to ensure optimal performance and security.

## WHAT'S IN THE BOX

Upon unboxing, please verify that all the following components are included:

- Giftbox
- Manual
- GPS unit
- Remote controller (for 303G model)
- Microphone
- Relay
- Screwer
- Harness
- SIM Card (not included)



## GPS-303G

### Packing list

- ① Giftbox
- ② Manual
- ③ GPS unit
- ④ Remote controller
- ⑤ Microphone
- ⑥ Relay
- ⑦ Screwer
- ⑧ Harness

Image: Packaging list for the BN-303G GPS Tracker, showing all included accessories.

## SPECIFICATIONS

Feature	Detail
Model	303F / G
Dimensions (DIM)	96mm x 53mm x 16mm
Weight	70g
Network	GSM / GPRS (2G)
Band	2G (850 / 900 / 1800 / 1900MHz)
GPS Sensitivity	-159dBm
GPS Accuracy	5m
GPS Start Time	Cold status: 45s, Warm status: 35s, Hot status: 1s
Applicable Car Power	12V – 24V
Battery	Chargeable 3.7V 350mAh Li-ion battery
Storage Temp	-40°C to +85°C
Operation Temp	-20°C to 65°C
Humidity	5% – 95% non-condensing
Special Feature	Waterproof

Connectivity Technology	Cellular
Supported Application	Alarm
Specific Uses	Versatile outdoor and vehicle tracking purposes



Image: Physical dimensions of the GPS-303 tracker.

SETUP

Professional installation is recommended for this device. If you are unsure about the installation process, please seek assistance from a qualified engineer.

1. SIM Card Installation

The BN-303G requires a 2G SIM card (not included) for operation. Ensure the SIM card is active and has sufficient balance for data and SMS services.

1. Locate the SIM card slot on the side of the GPS tracker.
2. Using the provided SIM ejector tool or a paperclip, gently push into the small hole next to the SIM slot to open it.
3. Insert the SIM card into the slot with the gold contacts facing down and the notched corner aligned correctly.
4. Push the SIM tray back into the device until it clicks into place.

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Video: Demonstrates the correct procedure for inserting the SIM card into the GPS tracker.

## 2. Power Connection and Wiring

The GPS tracker needs to be connected to the vehicle's power supply (12V-24V). The wiring harness includes connections for power, ignition (ACC), fuel pump relay, and an SOS button.

- Connect the black wire from the harness to the vehicle's negative (-) terminal (ground).
- Connect the red wire from the harness to the vehicle's positive (+) terminal (constant power).
- Connect the white wire (ACC Line) to the vehicle's ACC line, which provides power when the ignition is on.
- For remote engine cut-off functionality, connect the fuel pump wire to the provided relay as per the wiring diagram. The relay supports 12V and optionally 24V systems.
- Connect the violet wire (SOS Line) to the SOS button. Find a suitable, accessible location in the vehicle to stick the SOS button.

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Video: Detailed guide on installing the GPS tracker, including power connections, SIM card insertion, and relay wiring for fuel cut-off.

## 3. Understanding Indicator Lights

The GPS tracker features three indicator lights that provide status information:

- **Red Light:** Indicates battery status. A solid red light means the battery is full.
- **Blue Light:** Indicates GPS signal status. A flashing blue light signifies a good GPS signal.
- **Green Light:** Indicates GSM signal status. A flashing green light signifies a good GSM signal.

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Video: Shows the normal flashing patterns of the signal lights on the GPS tracker, indicating proper function.

## OPERATING THE DEVICE

The BAANOOL BN-303G GPS tracker can be controlled via SMS commands, a dedicated mobile application, or a web platform. The web platform and mobile application are provided free of charge, with no monthly subscription fees.

### Key Features and Functions:

- **Real-time Positioning:** Track your vehicle's location in real-time using the mobile app or web platform.
- **Over Speed Alarm:** Set a speed limit, and receive alerts if the vehicle exceeds it.
- **GEO-Fence:** Define virtual boundaries and receive notifications when the vehicle enters or exits these areas.
- **Remote Engine Cut-off:** Remotely disable the vehicle's engine for security purposes (requires proper relay installation).
- **Motion Alarm:** Receive alerts if the vehicle moves without authorization.
- **Historical Playback:** Review past routes and travel history on the platform.

- **Remote Control:** The BN-303G model includes a remote controller for certain functions.
- **Monitoring (Microphone):** The included microphone allows for remote audio monitoring.
- **SOS Alarm:** In case of emergency, pressing the SOS button will send an alert to pre-set numbers.
- **Waterproof Design:** The device features a waterproof design for durability in various conditions.



Image: The BN-303G GPS Tracker shown alongside its mobile application interface and remote control.





Image: Real-time positioning feature of the GPS tracker.



Image: Geo-fence feature allowing users to set safe zones and receive alerts.

## MAINTENANCE

To ensure the longevity and optimal performance of your BAANDOL BN-303G GPS Tracker, consider the following maintenance tips:

- Regularly check all wiring connections to ensure they are secure and free from corrosion.
- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods, even though it is designed for vehicle use.
- Ensure the SIM card remains active and has sufficient credit/data for continuous operation.
- Periodically check for firmware updates through the official platform or app, if available.

## TROUBLESHOOTING

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If you encounter issues with your GPS tracker, please refer to the following common troubleshooting steps:

- **Device not powering on:** Check power connections (red and black wires) to ensure they are correctly connected to the vehicle's battery. Verify the vehicle's battery is charged.
- **No GPS signal (Blue light not flashing):** Ensure the device is installed in a location with a clear view of the sky, away from metal obstructions that might block GPS signals. Allow sufficient time (up to 45 seconds for cold start) for the device to acquire a signal.
- **No GSM signal (Green light not flashing):** Check if the SIM card is correctly inserted and activated. Verify that the SIM card has network coverage in the area. Contact your SIM card provider if issues persist.
- **Inaccurate location:** Ensure the device has a strong GPS signal. Environmental factors like tall buildings or dense foliage can affect accuracy.
- **Platform/App not updating:** Check your internet connection. Ensure the SIM card in the tracker has data services enabled and sufficient balance. Restart the device if necessary.
- **Remote functions not working:** Verify that the device has a good GSM signal. Ensure correct wiring for features like engine cut-off. Check SMS commands for correct syntax if using SMS control.

For further assistance, please contact BAANOOL customer support.

## WARRANTY AND SUPPORT

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BAANOOL GPS trackers come with a **15-month warranty** from the date of purchase. As an original manufacturer, BAANOOL provides comprehensive after-sales service and support.

If you experience any problems with your device, please do not hesitate to contact our customer service team for a perfect solution. We are committed to ensuring your satisfaction.

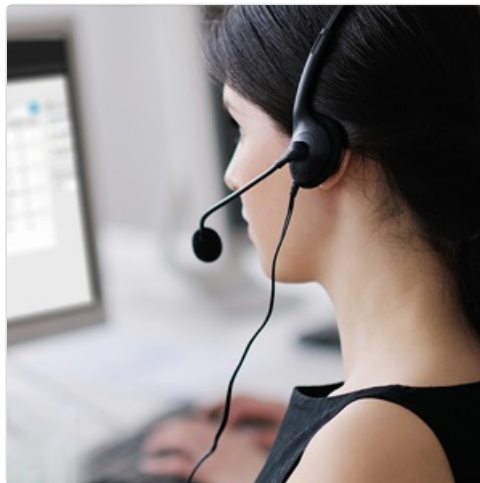


Image: BAANOOL offers lifetime customer support for their products.