



Manuals.plus /

› BAANOOL /

› BAANOOL BN-401A-L 4G GPS Tracker User Manual

BAANOOL BN-401A-L

BAANOOL BN-401A-L 4G GPS Tracker User Manual

Model: BN-401A-L (4G) - Latin American Version

1. PRODUCT OVERVIEW

The BAANOOL BN-401A-L is a 4G GPS tracker designed for vehicles in Latin American regions. It provides real-time positioning, historical playback, and various alarm functions. This device is compatible with a range of vehicles including cars, motorcycles, fleets, scooters, buses, and trucks. It operates on 4G bands B2/B3/B4/B5/B7/B8/B28A/B28B and requires a SIM card for operation. Control and monitoring are available via a free web platform and mobile application.

1.1 What's in the Box

- GPS Unit (BN-401A-L)
- Relay
- Harness
- User Manual
- SIM Card (Note: A SIM card is included, but a data plan must be purchased separately.)

BN-401A-L Latin American Version

4G Bands: B2/B3/B4/B5/B7/B8/B28A/B28B

Please confirm the bands suit your area



Features

- Cut off the engine remotely
- Free APP & web platform
- Configure parameters by Bluetooth
- Waterproof
- Remote control (for BN-401B-L)
- SOS alarm
- Over speed alarm
- GEO-fence

Please refer to the user manual for other functions

You need to buy a SIM card to use this tracker

Please download 'BAANOOL IOT' on the Apple store or Google Play

Figure 1: Contents of the BAANOOL BN-401A-L package. Shown are the GPS unit, relay, wiring harness, and user manual.

1.2 Key Features

- Precise Localization (GPS accuracy: 5m)
- History Playback
- GEO-Fence Functionality
- Bluetooth Configuration for Parameters
- Bluetooth Automatic Arm/Disarm
- Waterproof Design
- Remote Engine Cut-off Capability (if wired correctly)
- Multiple Alarm Functions: ACC Alarm, Shock Alarm, Low Battery Alarm, External Power Disconnection Alarm, SOS Alarm, Movement Alarm, Over Speed Alarm
- Free APP & Web Platform (no subscription fee)
- Compatibility with Android, iOS, and Personal Computers



Figure 2: Visual representation of key features such as SOS, built-in battery, various alarms, real-time tracking, Geofence, and waterproof design.

2. SETUP GUIDE

2.1 SIM Card Installation

1. Ensure the device is powered off before inserting the SIM card.
2. Locate the SIM card slot on the device.
3. Insert a 4G-compatible SIM card (purchased separately with a data plan) into the slot. Ensure it is correctly oriented.
4. Close the SIM card slot cover securely to maintain waterproofing.

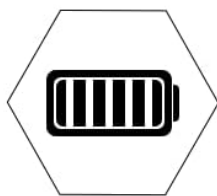
2.2 Device Wiring and Installation

The BN-401A-L GPS tracker should be installed on the vehicle's onboard power supply (12-24V). Proper wiring is crucial for functionality, including remote engine cut-off if desired.

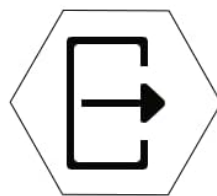
1. **Power Connection:** Connect the red wire of the tracker to the vehicle's positive power supply (12-24V). Connect the black wire to the vehicle's negative/ground.
2. **ACC Wire:** Connect the orange ACC wire to the vehicle's ACC ignition wire. This allows the tracker to detect ignition status.
3. **Relay Connection (for remote engine cut-off):** If you intend to use the remote engine cut-off feature, connect the relay according to the provided wiring diagram in the full user manual. This typically involves interrupting the fuel pump or ignition circuit.
4. **SOS Button (Optional):** If your model includes an SOS button, connect it as per the detailed wiring instructions.
5. **Secure Placement:** Install the GPS unit in a hidden, secure location within the vehicle, ensuring it has a clear view of the sky for optimal GPS signal reception.



SOS



Built-in battery



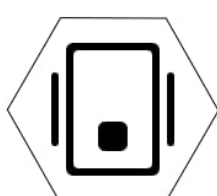
Movement
alarm



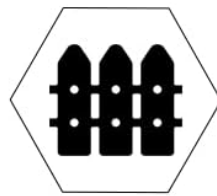
Overspeed
alarm



Real time
tracking



Vibration alarm



Geo fence



Waterproof

Figure 3: The BAANOOL BN-401A-L GPS tracker with its dimensions (6.78x4.1x2.15 cm) and a summary of features. This image provides a visual reference for the device's size and general appearance, which is helpful for installation planning.

2.3 Application Download and Account Setup

1. Download the 'BAANOOL IOT' application from the Apple App Store or Google Play Store.
2. Register for a new account using your email or phone number.
3. Log in to the application and add your device using its unique IMEI number, which can be found on the device itself or its packaging.
4. Alternatively, access the web platform via a computer browser and follow similar registration and device addition steps.

3. OPERATING INSTRUCTIONS

3.1 Real-time Tracking

Once the device is installed and configured, you can monitor your vehicle's location in real-time through the

BAANOOL IOT app or web platform.

- Open the BAANOOL IOT app or log in to the web platform.
- Select your device from the list to view its current location on the map.
- The map will display the vehicle's position, speed, direction, and ignition status.

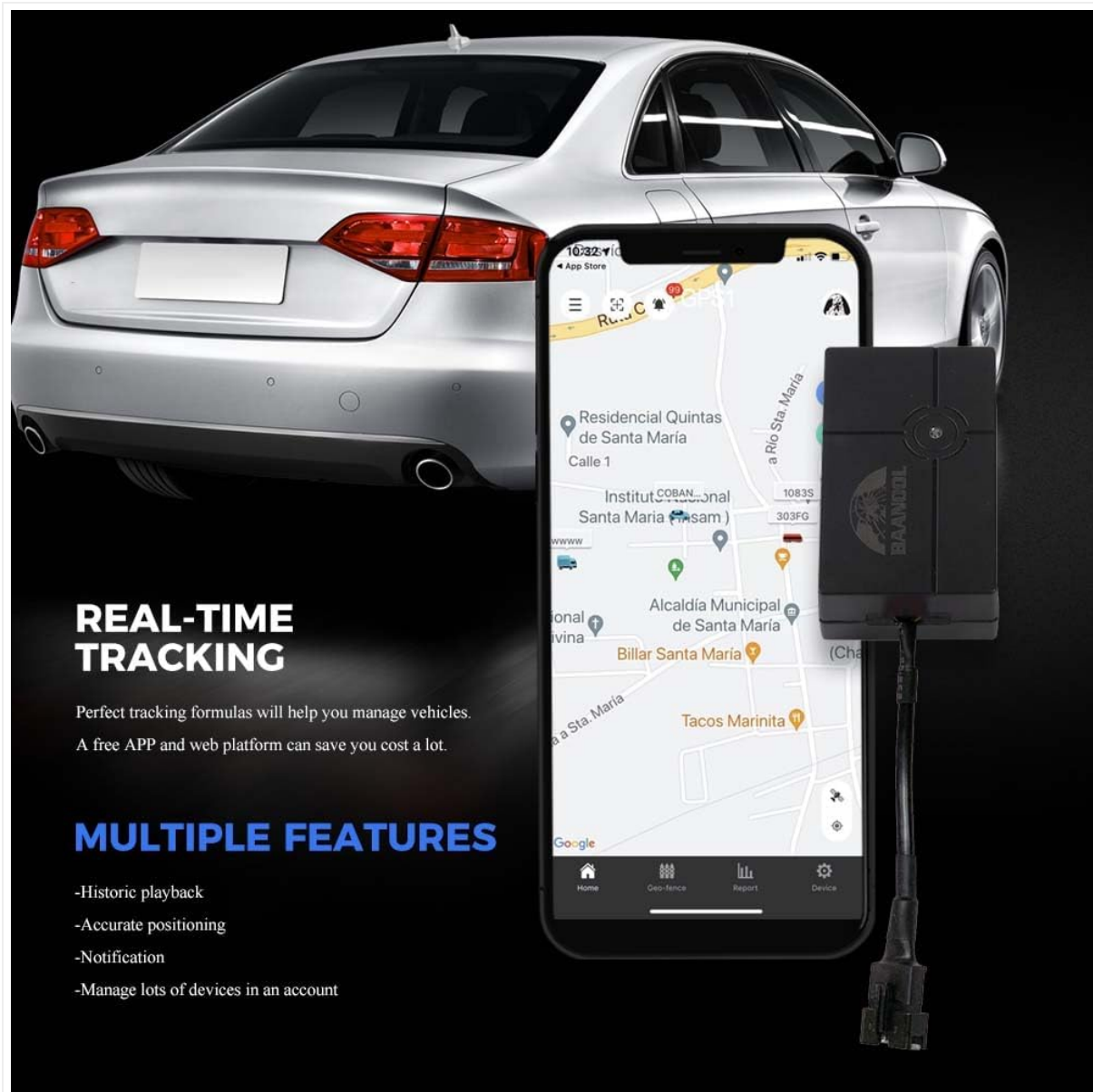


Figure 4: The BAANOOL IOT mobile application interface showing real-time vehicle tracking on a map.

3.2 History Playback

Review past travel routes and activities:

- Navigate to the 'History' or 'Track Playback' section in the app/platform.
- Select a date and time range to view the vehicle's route during that period.

3.3 GEO-Fence Setup

Create virtual boundaries for your vehicle:

- In the app/platform, go to the 'GEO-Fence' section.
- Draw a desired area on the map.
- Configure alerts for when the vehicle enters or exits this defined area.

3.4 Alarm Functions

The tracker supports various alarms to enhance security:

- **ACC Alarm:** Notifies you when the vehicle's ignition is turned on or off.
- **Shock Alarm:** Alerts you to unusual vibrations or impacts.
- **Low Battery Alarm:** Informs you when the tracker's internal battery is low.
- **External Power Disconnection Alarm:** Notifies if the tracker is disconnected from the vehicle's main power.
- **SOS Alarm:** Triggered by pressing an optional SOS button (if installed), sending an emergency alert.
- **Movement Alarm:** Alerts if the vehicle moves outside a set radius without ignition.
- **Over Speed Alarm:** Notifies if the vehicle exceeds a predefined speed limit.

Configure these alarms and their notification methods (app push, SMS) within the BAANOOL IOT application settings.

3.5 Remote Engine Cut-off

If the relay is correctly installed, you can remotely cut off the engine via the app or platform. This feature should be used responsibly and only when the vehicle is stationary or at a safe speed to prevent accidents.

3.6 Bluetooth Configuration

The device supports Bluetooth for configuring parameters and automatic arm/disarm functions. Refer to the detailed instructions in the full user manual for Bluetooth pairing and specific command usage.

Video 1: An overview of the BAANOOL 401A GPS Tracker, showcasing its physical components and basic setup. This video provides a visual guide to the product's appearance and initial unboxing experience.

4. MAINTENANCE

To ensure optimal performance and longevity of your BAANOOL BN-401A-L GPS tracker, follow these maintenance guidelines:

- **Regular Inspection:** Periodically check the device and its wiring for any signs of damage, loose connections, or corrosion.
- **Keep Clean:** Wipe the device with a soft, dry cloth. Avoid using harsh chemicals or solvents.
- **Waterproofing:** Ensure all covers and seals are intact to maintain the device's waterproof rating. Do not submerge the device in water.
- **Software Updates:** Keep the BAANOOL IOT application updated to the latest version to benefit from new features and bug fixes.
- **Battery Care:** The device has a built-in 90mAh Li-ion battery. While primarily powered by the vehicle, this battery provides backup. Avoid prolonged exposure to extreme temperatures to preserve battery life.

5. TROUBLESHOOTING

If you encounter issues with your GPS tracker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device not powering on	Loose power connection, no power from vehicle, faulty wiring.	Check power wires (red and black) for secure connection. Verify vehicle's power supply. Ensure correct voltage (12-24V).
No GPS signal / Inaccurate location	Device in a shielded location, poor satellite reception, GPS antenna obstruction.	Relocate the device to an area with a clearer view of the sky. Avoid placing it under metal objects or inside enclosed compartments. Allow time for initial GPS fix.
No GSM signal / Offline in app	SIM card not inserted correctly, no data plan, incorrect APN settings, poor network coverage.	Ensure SIM card is properly inserted and activated with a data plan. Check APN settings (refer to SIM card provider). Verify network coverage in the area. Restart the device.
Remote engine cut-off not working	Incorrect relay wiring, vehicle ignition on, safety protocols preventing cut-off.	Review relay wiring diagram carefully. Ensure the vehicle's ignition is off before attempting cut-off. Some systems prevent cut-off at high speeds for safety.
Alarms not triggering	Alarm settings not configured, app notifications disabled, device offline.	Check alarm settings in the BAANOOL IOT app. Ensure app notifications are enabled on your smartphone. Verify the device is online and has a stable GSM signal.

For further assistance, please contact BAANOOL customer support.

6. SPECIFICATIONS

Feature	Detail
Model	BN-401A-L (4G)
4G Bands (Latin American Version)	B2/B3/B4/B5/B7/B8/B28A/B28B
Network	LTE
Dimensions (L x W x H)	6.78 x 4.1 x 2.15 cm (2.67 x 1.6 x 0.85 inches)
GPS Unit Weight	58g (0.17 Kilograms including packaging)
GPS Accuracy	5m
Voltage of Power	12-24V
Battery	Chargeable 3.7V 90mAh Li-ion battery
Enclosure Material	Plastic
Connectivity Technology	Cellular
Supported Application	Car, Motorcycle, Vehicle, Fleet, Scooter, Bus, Taxi, Truck, Free APP & Web Platform
Compatible Devices	Android, iOS, Personal Computer

7. WARRANTY AND SUPPORT

7.1 Warranty Information

BAANOOL GPS trackers come with a **15-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

As an original manufacturer, BAANOOL provides comprehensive after-sales service. If you encounter any problems with your device or require technical assistance, please contact BAANOOL customer support through the official website or the contact information provided in your product packaging. Provide your model number and a detailed description of the issue for efficient support.