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BAANOOL BN-401B-N

BAANOOL BN-401B-N 4G GPS Tracker User Manual

Model: BN-401B-N (4G)

Brand: BAANOOL

1. INTRODUCTION

The BAANOOL BN-401B-N is a 4G GPS tracker designed for vehicles in North American regions. This device provides real-time location tracking, various alarm functions, and remote control capabilities for enhanced vehicle security and management. It is compatible with a range of vehicles including cars, motorcycles, fleets, scooters, buses, and trucks.

This manual provides essential information for the proper installation, operation, and maintenance of your BN-401B-N GPS tracker. Please read it thoroughly before using the device.

The device operates on 4G bands: B2/B4/B5/B7/B12/B13/B66/B28A. Ensure these bands are suitable for your area before use.

2. WHAT'S IN THE BOX

The BAANOOL BN-401B-N GPS tracker package includes the following items:

- GPS Unit (BN-401B-N)
- Wiring Harness
- Remote Controller
- Relay
- User Manual
- Battery (pre-installed or included separately)



Image: Contents of the BAANOOL BN-401B-N GPS tracker package.

Your browser does not support the video tag.

Video: This video demonstrates the unboxing and contents of the BAANOOL BN-401B-N GPS tracker package, including the main unit, wiring harness, remote control, and user manual.

3. SETUP AND INSTALLATION

3.1 SIM Card Insertion

The BN-401B-N requires a 4G SIM card for network communication. Insert a compatible SIM card into the device. Ensure the SIM card is active and has data, SMS, and call services enabled. No subscription fee is required for the platform itself, but a SIM card with a data plan is necessary for the tracker to function.

3.2 Wiring and Power Connection

The GPS tracker should be installed on the vehicle's onboard power supply (12-24V). Connect the red wire of the harness to the positive (+) terminal of the vehicle's power supply and the black wire to the negative (-

) or vehicle body ground. For advanced functions like remote engine cut-off, consult a professional for proper relay wiring.

BN-401B-N North American Version

4G Bands: B2/B4/B5/B7/B12/B13/B66/B28A

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-N)
- 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

Image: Physical dimensions of the BN-401B-N tracker for installation planning.

3.3 Application Download and Account Setup

Download the official BAANOOL IOT application from the Apple App Store or Google Play Store. Follow the in-app instructions to register your device and set up your account. The device can also be managed via a free web platform.



GPS-401B-N

Packing list

- 1 Giftbox
- 2 Harness
- 3 GPS unit
- 4 Remote controller
- 5 Manual
- 6 Relay

Image: Example of the BAANOOL tracking application interface.

3.4 Bluetooth Configuration

Parameters can be configured via Bluetooth. Refer to the app or web platform for detailed instructions on connecting and adjusting settings using Bluetooth.

4. OPERATING THE DEVICE

The BN-401B-N offers various functions for vehicle tracking and security. Control the device using SMS commands, the mobile application, or the web platform.

4.1 Key Features

- **Precise Localization:** Obtain accurate GPS location data (accuracy: 5m).
- **Real-time Tracking:** Monitor your vehicle's location continuously.
- **History Playback:** Review past travel routes and data.
- **GEO-Fence:** Set up virtual boundaries and receive alerts when the vehicle enters or exits these areas.
- **Remote Controller:** The BN-401B-N model includes a remote controller for functions like arming/disarming.
- **Remote Engine Cut-off:** If wired correctly, the device supports remotely cutting off the engine.
- **Waterproof Design:** The device is designed to withstand water exposure.

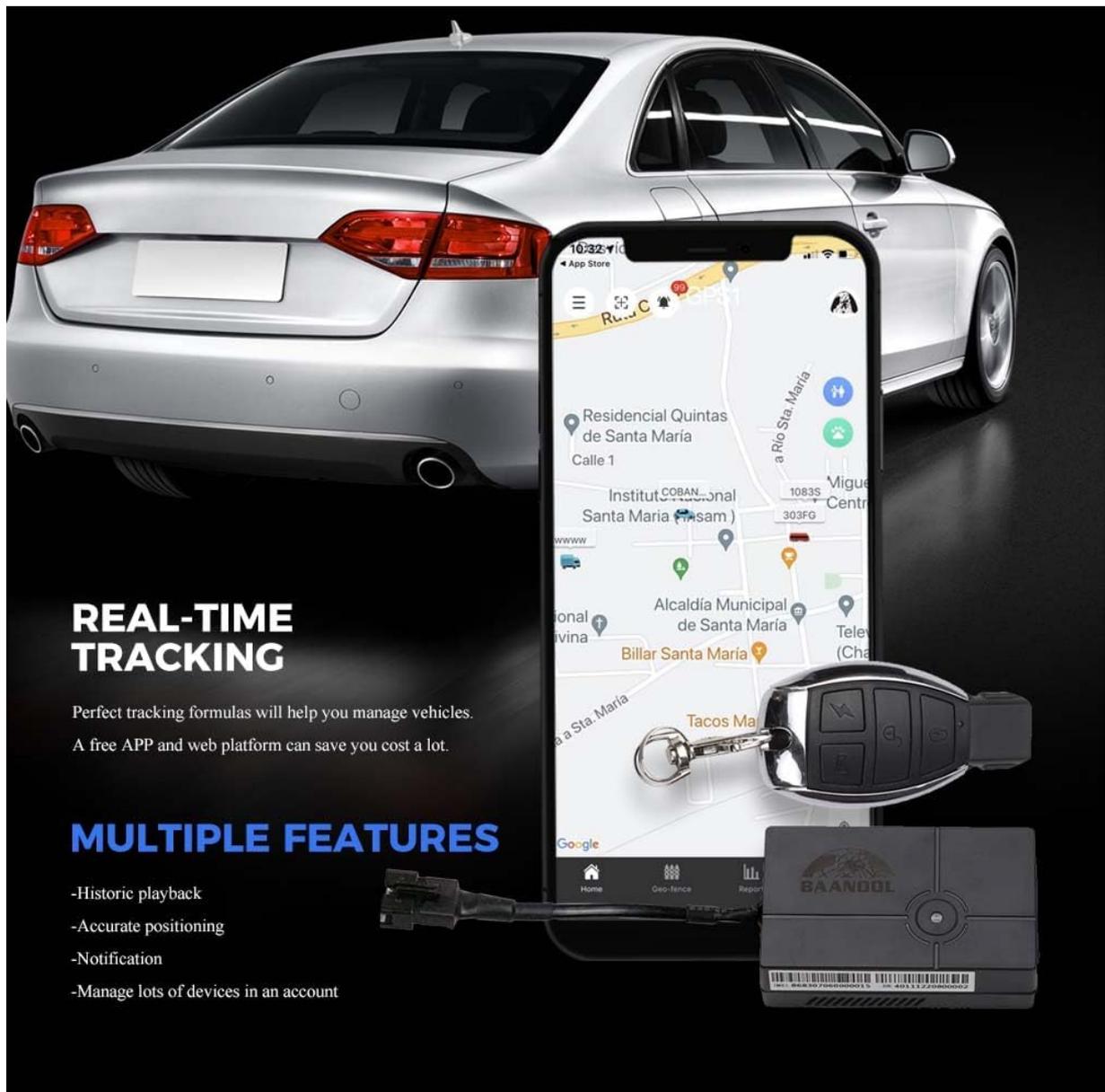


Image: Visual representation of the tracker's main features.

4.2 Alarm Functions

The tracker is equipped with several alarm features to enhance security:

- **ACC Alarm:** Triggers when the vehicle's ignition is turned on.
- **Shock Alarm:** Alerts you to impacts or vibrations.
- **Low Battery Alarm:** Notifies you when the internal battery is low.
- **External Power Disconnection Alarm:** Alerts if the main power supply is cut.
- **SOS Alarm:** Activated by an SOS button (if available or configured).
- **Movement Alarm:** Triggers if the vehicle moves without authorization.
- **Over Speed Alarm:** Alerts if the vehicle exceeds a predefined speed limit.



APPLICATIONS



Car



Motorbike



Truck



Motorcycle



Bus

Image: Examples of vehicle types compatible with the tracker.

5. MAINTENANCE

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

- **Regular Checks:** Periodically inspect the wiring connections to ensure they are secure and free from damage.
- **Battery Care:** The device contains a chargeable 3.7V 90mAh Li-ion battery. While designed for vehicle power, ensure the internal battery is charged to maintain functionality during power interruptions.
- **Cleaning:** Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning. Avoid harsh chemicals.
- **Water Resistance:** The device is waterproof, but avoid submerging it in water or exposing it to high-pressure water jets.

6. TROUBLESHOOTING

If you encounter issues with your BN-401B-N GPS tracker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device not powering on	Incorrect wiring, no power from vehicle, faulty internal battery.	Check power connections (red to positive, black to negative). Ensure vehicle power is active. Allow internal battery to charge.
No GPS signal / Inaccurate location	Poor installation location (e.g., under metal), device indoors, weak satellite signal.	Relocate the device to an area with a clear view of the sky. Test outdoors.
No GSM signal / Offline in app	SIM card not inserted correctly, SIM card inactive, no data plan, out of network coverage.	Reinsert SIM card. Verify SIM card is active and has a data plan. Check network coverage in your area.
Remote functions not working (e.g., engine cut-off)	Incorrect wiring of relay, app/platform issue, device offline.	Verify relay wiring with a professional. Check device status in the app/platform. Ensure device has GSM signal.
Constant red light, no green light (no GSM signal)	SIM card issue, network problem, device fault.	Check SIM card. Try a different SIM card. Contact support if the issue persists.

For further assistance, please contact BAANOOL customer support.

7. SPECIFICATIONS

Parameter	Value
Model	BN-401B-N (4G)
4G Bands	B2/B4/B5/B7/B12/B13/B66/B28A
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 (2.05 oz)
GPS Accuracy	5m
Voltage of Power	12-24V
Battery	Chargeable 3.7V 90mAh Li-ion battery (included)
Connectivity Technology	Cellular
Special Features	Geo-Fence, Remote Control (for 401B-N model), Waterproof
Supported Applications	Car, Motorcycle, Vehicle, Fleet, Scooter, Bus, Taxi, Truck, Free APP & Web Platform
Specific Uses	Vehicle Tracking

8. WARRANTY AND SUPPORT

BAANOOL GPS trackers come with a **15-month warranty**. 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. Provide your model number (BN-401B-N) and a detailed description of the issue for efficient resolution.

For support, please visit the official BAANOOL website or refer to the contact information provided in your product packaging.