Hardwired Vehicle Tracker

8-Wired

NBS06

Product Operational Manual

GPS –CONNECT

Dear Users,

Thank you for choosing our NBS GPS CONNECT. Please read this product manual carefully before using this product.

The manufacturer reserves the right to interpret and modify the instructions to the extent permitted by law.

Contents

Chapter 1 Product Information

1.1 Product Introduction

NBS06 is a 2G/4G multi-functional GPS TRACKER which supports ignition state detection and remote relay control. The product supports 8-60V wide voltage input which is used in car vehicles and trucks widely. Built-in abnormal recovery circuit, which achieves a long-term stable operation. Built-in light sensing detection which supports alarm function of removal. Built-in backup battery ensures power-off alarm.

1.2 Product Display

1.3 Product Specification

	Item	Specification	Remarks
Physical Specification	Model	**NBS06**	8-Wired
	Product sizes	85x40x12mm	
	Inner Battery	110mAh polymer battery	
	Weight of Device	80grams	
	Product shell material	ABS	
	SIM Card Type	Micro SIM card	15 x12mm
Network	Network	4G Compatible 2G	
	2G	Yes	
	4G	Yes	
	Data communication type	TCP	
Power Supply System	Working voltage	DC 8-60V	
	Standby current	3 mA	
	Average working current	About 30mA (when 12V power supply)	
	Power protection	Support for 1,500 W surge protection	
GPS SYSTEM	Antenna type	Built-in 25*25*4 ceramic antenna	
	GPS Specification	Recapture sensitivity: -154 dBm Tracking sensitivity: -160 dBm	
	Positional accurate error	GPS + BD satellite positioning: <10m WIFI location: <30m LBS base station location: <1000m	
Environmental Parameters	Operating temperature	-20 ºC to + 60 ºC	
	Storage temperature	-30 ºC to + 8 0 ºC	
	Working humidity	20% -80%	

1.4 Product Package

Item	Quantity/pcs	Remarks
Device	1	/
Connecting Wire	1	/
3M Sticker	1	/
Packing box	1	/
Relay	1	Optional as per required
Pre-Paid SIM CARD	1	Optional as per required

1.5 Main Function

	Details	Remark
Specific	**Remote Oil Cut**	Yes, supported
	Light Sensor Alarm	Yes, supported
	SOS	Yes, supported
Commonly used functions	**Track query**	You can view the playback of the action within 180 days of the regulatory target
	GEO-Fence	Virtual electronic fence can be set up to alarm the target after entering and leaving the fence
	ACC detection	Support for ACC intelligent judgment
	Remote command control	It can remotely change the working mode and issue relevant instructions to control other functions of the device
Others	**Overspeed Alarm**	When the speed of vehicle is over setting, the alarm will be transmitted to the platform
	Low voltage Alarm	When the equipment voltage is below 11V, the alarm will be transmitted to the platform
	Remote Upgrade	Supported

Chapter 2 Usage Method

2.1 Installation Instructions

Open the cover according to Figure 1 and install the SIM card. The device uses a Micro-SIM card. Please select the specification of Micro-SIM (Specification of Micro SIM card: 15mm x12mm) when purchasing.

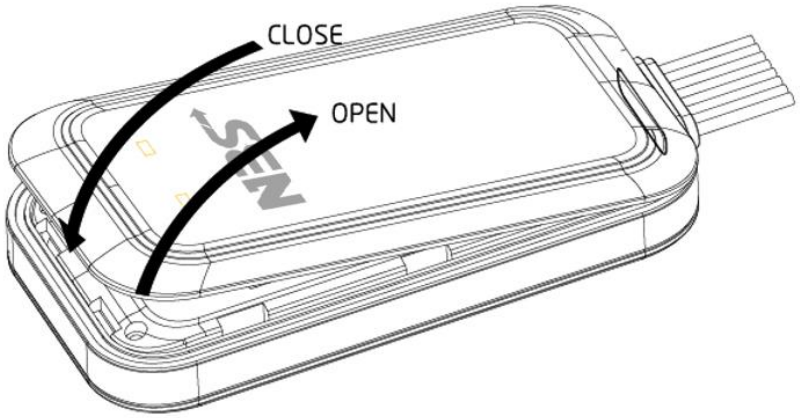

Figure 1. How to open the cover

2.2 Wiring Instructions

NBS06 is a multi-functional GPS Tracker with 8 interface leads, which are defined as follows:

Lead 1	Lead 2	Lead 3	Lead 4	Lead 5	Lead 6	Lead 7	Lead 8
red	white	yellow	black	brown	gray	orange	orange
+ (12V/24V)	ACC	RELAY	- （Ground）	Reserved	GND	RXD/SOS	TXD/SOS

Table 1

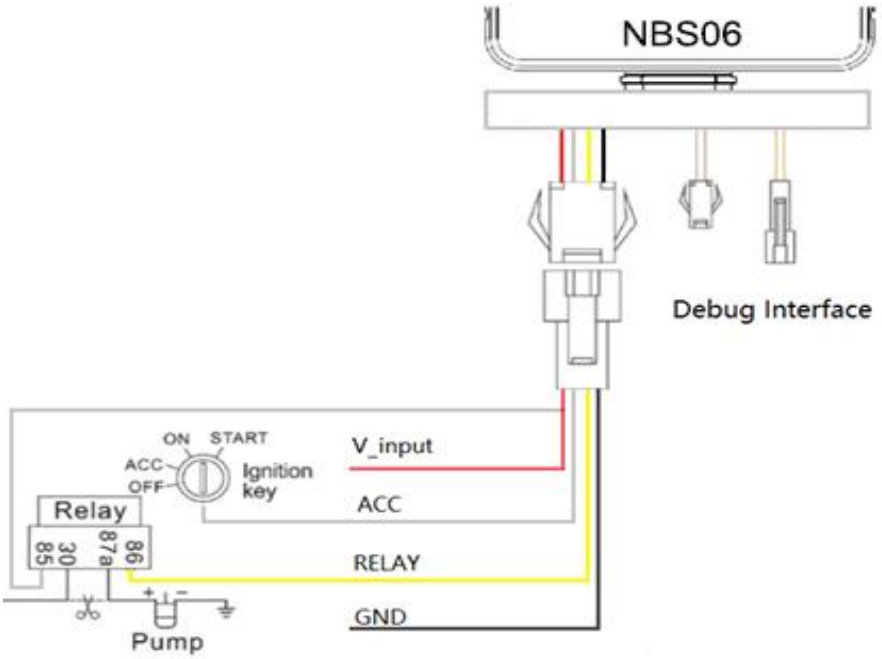

Figure 2 Wiring diagram of NBS06

Note 1: Power Connection

For simple position function, connect the positive and negative electrode of the power supply only.

Corresponding to lead 1 (red) in the table is connected to the positive electrode (the positive electrode supports the input voltage of 6-60V) and the lead 4 (black) is connected to the negative electrode or the tie.

Note 2: ACC Wire Connection

ACC line is the lead 2 in the table (white).

The platform shows the “engine is on” state when the ACC line is in high voltage, and the “engine is off” state when the ACC line is in low voltage.

Marks:

ACC state is judged by the vibration sensor (Algorithm) by default.

Command: ACCDETMODE,0#

Send command ACCDETMODE,0 # to switch if you want to use ACC Line to achieve ACC state. The parameter 0 in the command indicates that the ACC state is judged by the ACC line.

Command: ACCDETMODE,1 #

Parameter 1 indicates that the ACC state is judged by the power supply voltage of the vehicle. When the engine is on, the voltage is about 14.3V (the battery is in the charging state), and the voltage is 12.8V when engine off.

Command: ACCDETMODE,2 #

Parameter 2 indicates the ACC state by using the sensor to judge its state.

Note 3: Connection of Relay

Please refer to the wiring in FIG. 2. if you want to use the relay to control functions.

Pin 86 of the relay should connect to the yellow line of the device, and pin 85 should connect to the positive electrode of the vehicle. Pin 30 and 87a are in closed state by default. By sending command to device to disconnect the Pin30 and 87a then achieve oil-cut remotely.

2.3Network Test

1) Testing the internet working after finishing wiring connection.

2) Insert SIM card, and blue light keeps on indicates that the device is ready on (Please refer to Indicator definition on 2.4);

3) Make the logo side exposure to the open air to have a good signal to talk satellite.

2.4 Status of Indicator Definition

BLUE LIGHT	**GPS Status**	Blinking: Waiting for GPS fix
		Solid: GPS got fix
RED LIGHT	**Network Status**	Blinking: Connecting to the Server
		Solid: Server Connected

2.5 Account and Device Login

2.5.1 PC PORTAL LOGIN

Open the PC link: https://basegps.com/nbs/#/

Login:

--1) Manually input the IMEI number.

--2) Default password is 123456.

Kindly change your password once you are logged in.

2.5.2 MOBILE APP LOGIN

This product supports Android and Apple Mobile App downloads. Please search the app store for "DOMILINK" software.

1. OR scan the QR code to download APP.
2. Login:

--1) Manually input the IMEI number.

--2) Default password is 123456.

Kindly change your password once you are logged in.

2.5.3 Multi Devices LOGIN

Please contact the wholesaler for a wholesaler master account to manage multi-devices.

Apple app download

Android app download

Login Interface

Chapter 3 Common Diagnose

3.1 Troubleshooting

Failed to connect to platform or shows offline, please check carefully:

- **Main power supply wiring**: Please do not connect to the internal control wiring
- **SIM CARD:** Whether installation is right
- **SIM CARD:** Whether it has traffic data
- **Signal:** Whether the vehicle has a good signal

The device connection platform is normal, but the satellite positioning is abnormal. Please check:

- Make sure the device is outside
- Checking the installation situation: GPS antenna should be facing out, avoiding the obstruction of metal or wire.
- GPS signals will weaken when there are tall buildings surrounding. Please drive to a wider and open place.

3.2 Common FAQ

Frequently asked questions	Fault description	Solutions
The positioning signal is not good	Using terminals in poor reception areas, such as under tall buildings or basements, cannot effectively receive satellite radio waves	Use the terminal where the signal is good
Cannot boot	Repeated switch machine, the indicator light is not on	Switch to OFF after 10 seconds to turn on
Unable to connect to network	The SIM card is not properly installed	Check the SIM card and reinstall it
	Metal surface of SIM card is dirt	Try it with a clean cloth
	The SIM card is damaged or invalid	Please replace the valid SIM card and
	Out of the GSM service area	Please move to the Network Service
	The signal is weak	Please move the strong signal and try
The location information is not found	The SIM card does not open the GPRS service	Please contact the network service provider to open the GPRS service
	SIM card arrearage	Charging fee
Send instructions to modify The parameter does not change	Instruction format error	Please re-edit the instructions to send
	Sending instructions does not respond	Please ensure that the terminal can connect to the network and open the terminal SIM card SMS function

3.3 Precautions

1. Please Keep away from water.

2. The power supply of the equipment is between DC 3.45V~4.2V, and the recommended working voltage is 4V. When installation, you should first determine whether the users power system is within this range, exceeding the maximum voltage of the terminal will damage the terminal.

3. When the ambient temperature exceeds the normal operating temperature range of the

terminal, a power failure is recommended.

4. When the vehicle is in the underground parking lot, tunnel or garage, the positioning signal will be affected, and the communication network signal blind area may cause the equipment to be able to monitor; when the vehicle leaves the above area, the equipment will automatically resume normal operation.

5. In case of any abnormal situation, please do not repair it yourself. The manufacturer shall not be liable for damage caused by connection of non-original accessories or removed connections between parts.

6. Please keep the product away from the extreme environment such as fire source, high temperature and high heat.

7. Do not open, modify, violent damage, etc.

8. Do not let the equipment fall from a height or suffer other shocks.

9. Do not charge the device in humidity.

WARNING SECTION

PLEASE NOTE: NBS GPS VEHILETRACKERS ARE SOLELY FOR THE PURPOSE

- TO TRACK AND MONITOR ASSETS ONLY
- STRONGLY DO NOT RECOMMEND THE USE FOR OTHER MALICIOUS USE
- NBS TAKES NO RESPONSIBILITY IF ITS GPS ARE USED OUTSIDE THE FRAMEWORK RECOMMENDED