

GD201E User Manual and Safety Information

About This Manual

Thank you for purchasing this OBD-II Device. To get the most from your new device, please check out this manual and keep it for future reference.

Notice

This manual has been designed with the utmost care to ensure the accuracy of its content. However, all statements, information and recommendations contained therein do not constitute a warranty of any kind, either expressed or implied.

Disclaimer

Images and screenshots used in this manual may differ from the actual product. Content in this manual may differ from the actual product or software. We reserve the right to make modifications on print errors or update specifications without prior notice.

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Getting Started

Know Your Device

GD201E is an LTE vehicle tracking device, which plugs directly into your vehicle's OBD-II port. It can track vehicle location, speed, trip distance, and driver behavior, then send this information to the server for analysis.



Status LED Indicator

LED INDICATOR	LED STATUS
LED1(Power)	Green blinking

The device is being powered by the internal battery.

LED1(Power)	Green solid
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The device is being powered by the vehicle.

LED2(Signal)	Red solid
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The device is on, but is either not connected to the cellular network, or has limited network service.

LED2(Signal)	Red blinking
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The device is updating through FOTA.

LED2(Signal)	Green solid
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The device is connected to the 4G network but there is no data transfer.

LED2(Signal)	Green blinking
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The device is connected to the 4G network and data is being transferred.

Install, Restart or Remove your Device

Install your Device

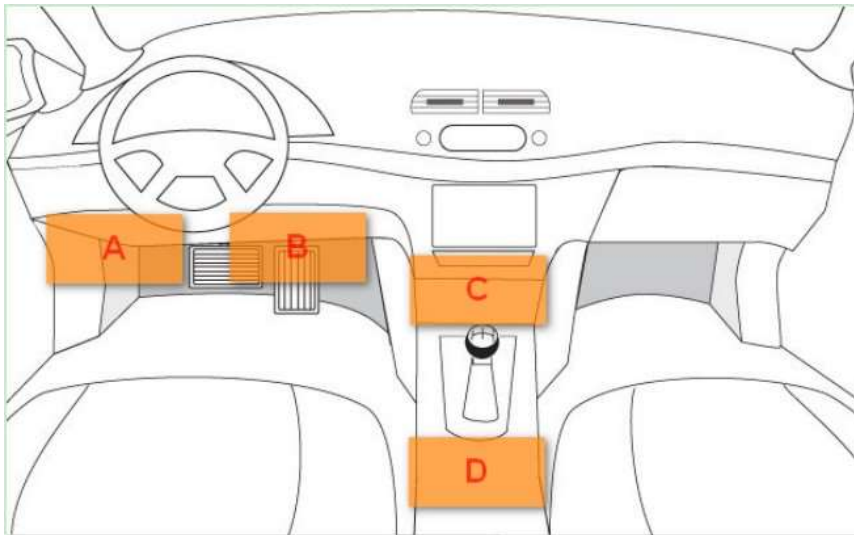
Make sure your vehicle is parked outside in a safe location and the engine is turned off.

Plug your device into the OBD-II connector port (or into the extension cable if required; extension cable sold separately).



NOTE:

1. Insert the device carefully to avoid damaging it. The OBD-II (On-Board Diagnostics) Port is usually located on or under the dash, by the driver's side. Most vehicles' OBD-II ports are located in areas A, B, C or D.



2. Once powered on, your OBD-II device automatically searches for and connects to your service provider's mobile network, transferring the location and vehicle information to the server.

Restart Device

Press and hold the restart button for about 2 seconds, then release. The device will restart.

(If the device is plugged into the vehicle, the device will restart; if the device is disconnected from the vehicle, the device will power off).

Remove Device

Make sure your vehicle is parked in a safe location and ensure that the engine is turned off.

Disconnect your device from the OBD-II connector port. Press and hold the restart button for 2 seconds, then release to power off the device.

FAQ

Problem	Suggested Solution
Device is plugged in but LED indicators are off	1. Re-install the device to the OBD-II port, checking whether it is connected tightly. 2. Check whether the PINs are in good condition.
Can I plug or unplug device while the engine is running?	1. No, it is forbidden. Plugging or unplugging the device while engine is running may cause some error on the DATA BUS of the vehicle. You should only do this when engine is off. 2. Plugging or unplugging the device while the engine is running may result in the Trip become missing.
The first time the device is installed, the vehicle appears to behave abnormally	1. Turn the engine off and unplug the device. 2. Lock the vehicle, wait for 20 to 30 minutes. 3. Turn the engine on and check whether the fault does not reoccur. If not, please go to Step 6. 4. Turn the engine off and re-install the device, confirm

	the connection is tight. If the connection is loose, please go to Step 6. 5. Check if the fault is reproduced. If yes, please go to Step 6. 6. Please stop using the device and contact the Service Center for troubleshooting.
Device Cannot Access the Internet	1. Make sure you are in a network coverage area and the installed SIM card is activated. 2. Check the "Network indicator" (LED2) of the device: a) Solid Red means the device is unable to register to the network; there may be a problem with the device SIM card or limited network service. Try to switch to another SIM card. Go to Step 3 if switching the SIM card still fails. b) Blinking Red means the firmware is upgrading. Please do not perform any operations until the upgrade is complete.

	c) Solid Green means there is a network problem. Go to Step 3. d) Blinking Green means the network is behaving normally. 3. Press the side button while the device is still installed to restart the device and check the network connection again. 4. Please contact the Service Center if device cannot access the internet after reset.
When sleep mode is activated, the power indicator and the signal indicator are still on.	The device typically goes to sleep mode after the engine is off for 10 minutes. However, there are exceptions: 1. If there is some buffer data that needs to transfer to the server, then the device will keep sending the data and will be forced to go into sleep mode after the ignition is off for 10 minutes. 2. The device is in process of a FOTA update. If the

	FOTA update process could not be completed within 30 minutes, the device will be forced to sleep.
Can I change to another SIM card with another network service provider?	No. Changing the SIM card to another network service provider may cause the device to not work properly.
What's the power consumption for the device while ignition is off?	Sleep Mode Power Consumption Current: $<800\ \mu\text{A}$

Compatible Vehicles

Electric cars and other vehicles such as heavy-duty trucks, motorcycles and ATVs, are not compatible with the OBD-II device.

Working Voltage

The power is supplied through the vehicle's OBD-II connector port. The voltage range is from 9V to 36V. If the Vehicle OBD-II voltage drops below 10.8V, your device will go into Protection mode to ensure that the car battery remains capable of restarting.

Specifications

Mechanical

Dimensions	72mm x 50mm x 27mm
Weight	~75g
Form Factor	OBD-II Device
Connector Type	SAE J1962 Male Connector

Electrical Specification

Power Supply	9~36V
Battery Capacity	180mAh

Environment

Operating Temperature	-20°C ~ +55°C
Storage Temperature	-40°C ~ +85°C
Humidity	5%~ 95% RH

Safety Information

Using Your Device

- Only use original accessories or accessories that are authorized. Using any unauthorized accessories may affect your device's performance.
- Avoid using your device near or inside metallic structures or establishments that can emit electromagnetic waves, as it may affect signal reception.
- The device is not waterproof. Please keep it dry and store in a shaded and cool place.
- Do not use your device immediately after a sudden temperature change. In such scenarios, condensation will be produced inside and outside your device, which may cause damage if powered on, so do not use it until it becomes dry.
- Handle your device carefully. Do not drop, bend or strike it. Otherwise, your device may be damaged.
- Only allow professionals and qualified technicians to dismantle the device and undergo repair work.
- An operating temperature range of $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$ and humidity range of 5% ~ 95% are recommended.

RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radiowaves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer the proximity to a wireless base station antenna, the lower the power output.

The highest SAR value for this device as reported to the FCC when tested for use in body is 0.33W/K.

While there may be differences between the SAR levels of various devices at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: 2APNR-GD201E.

This device has been tested and meets the FCC RF exposure guidelines.

SAR compliance for body operation is based on a separation distance of 5 mm between the unit and the human body. Carry this device, at least 5 mm away from your body to ensure RF exposure level compliant or lower to the reported level.

FCC Compliance(FOR PART 15B/PART 15C) This device complies with part 15 of the FCC

Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause

harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.