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The Bolt is our compact, plug and play OBDII tracking device.

The Bolt was previously available in 2 variants:

- 2G
- 4G LTE-M/NB-IoT

It has now been replaced with the Bolt2, available in a cellular LTE-M/NB-IoT version only.

In terms of usage and functionality, the major difference is that the Bolt2 comes with an internal back-up battery, which allows an alert to be sent when the device is unplugged, and tracking to continue for some time. The original Bolt did not. This guide applies to both units.



The device require next to no installation, drawing power from a vehicle's OBDII port. (They will not read OBDII diagnostic data). The Bolt2 is designed to provide extremely cost-effective tracking with all the quality and support of a Digital Matter product.

□ [**digitalmatter.com**](https://www.digitalmatter.com)

See the [**product page**](https://www.digitalmatter.com/devices/bolt-obd/) (<https://www.digitalmatter.com/devices/bolt-obd/>) on [**www.digitalmatter.com**](https://www.digitalmatter.com) (<https://www.digitalmatter.com>) for more specifications.

Datasheet & High Resolution Images

□ [**Bolt Downloads**](#)

View the [**tech-specs**](https://www.digitalmatter.com/devices/bolt2/tech-specs/) (<https://www.digitalmatter.com/devices/bolt2/tech-specs/>) and [**high resolution device images**](https://www.dropbox.com/sh/neqb9zz4x678r0n/AABEpapZ0897E4_3NLwNBJq9a?dl=0) (https://www.dropbox.com/sh/neqb9zz4x678r0n/AABEpapZ0897E4_3NLwNBJq9a?dl=0) for the Bolt

This article will help you get up and running to test Bolt 2



In the Box

You'll get a compact box containing the Bolt with unsealed housing inside a sleeve and a backing sticker with an LED hole.

Setting it up

Sim Card

Both devices use a Nano SIM (4FF)

1. Remove the board from the housing, the board will be sitting inside the bottom housing and can slide out smoothly without detaching any screws or clips.
2. Orientate the Nano SIM with the contacts facing down and the keyed corner towards the board.
3. Slide the SIM into the SIM holder



Connectivity Settings

The device should get online automatically in most cases. Though it is recommended once online that you **Set the Network Profile** (<https://support.digitalmatter.com/en/support/solutions/articles/16000110043>), (APN and bandmasks) for best performance

Internal Battery

The Bolt 2 comes with a backup battery. So once the sim card is inserted, make sure to plug the internal battery to the connector in the PCB, and the LED will start flashing. This step is not required for the v1 Bolt.



Close the Housing

The housing clips together and does not need screws, once it is sealed, it will snap firmly shut – Re-opening of the housing will often result in the breakage of the clips.



Plug into Vehicle

The Blue LED will flash at 1Hz if it is getting powered. You can find where your vehicle's OBDII point is by researching the make and model online

Online

Once the battery is connected, the internal LED will come on and flash blue and the device will do the following:

1. Connect to the server: If the SIM card works, the device will connect to the OEM Server. It will attempt to download any firmware and parameter updates and fetch fresh GPS aiding data.
2. Get a GPS Fix: the device will attempt to get a GPS fix. Speed this up by moving to an area with good GPS signal.
3. Reconnect to the server: The device will attempt to connect again to upload the result of the GPS Fix.
4. Stop flashing: once complete, the LED will stop flashing. If the device does not complete these steps in 10 minutes, it will go to sleep and try again on the next heartbeat or the next trip start.

OEMServer Installer

Go to [www.oemserver.com/installer](https://oemserver.com/installer) (<https://oemserver.com/Installer>) for ease of testing

If the LED flashes but the Bolt does not connect, check the SIM is in the holder correctly and check that the SIM is working.

Troubleshooting Steps

See here for tips for if your device isn't connecting

(<https://support.digitalmatter.com/support/solutions/articles/16000087627-troubleshooting-devices-not-connecting>)

Default Settings

The Bolt will operate with default settings out of the box. These can be changed using the OEM Admin interface. The defaults include:

- Hourly Heartbeats: the device will log a heartbeat record, connect to the server, and refresh its GPS data every 60 minutes.
- Logging: The device is set to log a record every 60 seconds or 500m of distance travelled, whichever comes first.
- Heading Changes: The Device will also log a record when the heading change of is detected and will track when the vehicle corners.
- Emulated Ignition: By default, the Bolt will track a trip if only if the ignition of the vehicle is activated. A trip will commence recording if the vehicle has moved more than 150m from its starting position. The Trip will automatically end if device has been stationary for 6 minutes. The device will upload at the beginning and end of a trip.

Bolt Assembly & Installation Guide

For a greater detail installation and assembly guide, **see our article here**

(<https://support.digitalmatter.com/support/solutions/articles/16000096673-bolt-assembly-and-installation-guide>)

Applications/Other Resources

The Bolt2 can be used for various applications, such as odometer/run hour monitoring, harsh event reporting, etc to name a few. Please see the links below on how these can be set up to suit your needs.

- **Harsh Event Setup** (<https://support.digitalmatter.com/support/solutions/articles/16000042353-harsh-event-setup>)
- **Accident Detection and Reconstruction** (<https://support.digitalmatter.com/support/solutions/articles/16000037561>)
- **On-Device Odometer and Run Hours** (<https://support.digitalmatter.com/support/solutions/articles/16000092583-on-device-odometer-and-run-hours>)
- **Improve Corner Tracking Accuracy** (<https://support.digitalmatter.com/support/solutions/articles/16000118161-improve-corner-tracking-on-hard-wired-devices-bolt-g62-dart2-g120->)