

Speed Control 2

Installation and activation guide — E-bike speed unlock app

System requirements

- Android smartphone version 7.0 (API 24) or higher
- Bluetooth active (with BLE support)
- E-bike with integrated Bluetooth module (tested on Engwe L20 3.0 Pro)
- Internet connection for initial license verification
- Permission to install apps from unknown sources

Document for customer distribution.

Version 2.0 — September 2026

Official site: <https://sblocca.bike/en/>

1. App Installation

Speed Control 2 is not available on Google Play Store. It is distributed as an APK file (Android Package) to be installed manually.

- You receive a download link for the APK file (by email, message or this web page). Download it to your Android smartphone.
- When the download is complete, open the file from the download notification or from your phone's "Downloads" folder.
- Android will show a security warning: "For security reasons, installation from this source is not allowed". Tap "Settings" and enable "Allow from this source" (or "Install unknown apps").
- Go back to the install screen and tap "Install". Wait a few seconds.
- When finished, tap "Open" to launch Speed Control 2.

Warning: on some phones (Xiaomi, Huawei, Samsung) the option is located in: Settings > Apps > Manage permissions > Install unknown apps. Enable the permission for the browser or file manager you use to open the APK.

2. FREE compatibility test (recommended before purchase)

Before paying, you can check that your bike is compatible: the Bluetooth connection and **basic functions** (power on/off, lights, battery status) are **free and do not require a license**.

- Turn on your e-bike and activate the phone's Bluetooth.
- Open Speed Control 2 and grant the requested Bluetooth and location permissions.
- On the main screen tap "Scansione BLE" (BLE scan) and select your bike from the list.
- Wait for the connection (status: "Pronto!" / "Ready!").
- Tap the **Lights ON/OFF** button: if the bike's lights turn on and off, your bike is **100% compatible** and the unlock will work. If the lights do not respond, your bike may not be supported: contact us BEFORE purchasing.

Info: this test is completely free. Always run it before purchase to avoid refund requests.

3. Machine Code

The first time you launch the app, in the "Licenza" / "License" section at the bottom you will find the "Codice Macchina" / "Machine Code" field. It uniquely identifies your phone and is used to generate your personal activation key.

- Open Speed Control 2. If requested, grant Bluetooth and location permissions.
- Scroll down to the "License" section.
- The Machine Code is a 16-character code (uppercase letters and numbers, e.g.: A1B2C3D4E5F6G7H8).
- Tap "Copy" next to the code to copy it to your clipboard.

Info: the Machine Code is unique per phone, does not change over time and cannot be used on another device. The activation key will be tied exclusively to this code.

4. License purchase with PayPal

The fastest way to activate the app is direct purchase from the "License" screen. Payment is processed on PayPal servers: the app never sees or stores your card data.

- In the "License" section, tap "Acquista Licenza" / "Buy License".
- Enter your First and Last Name and your Email, then tap "Pay with PayPal". The email must be valid: it is used to contact you in case of issues.
- The payment page opens in the browser. Amount: **€29.99 one-time** (Full license, no expiry, no renewals).
- Pay with your PayPal account or, if you don't have one, by card choosing the guest checkout option.
- When payment completes you'll see "Payment completed! License activated." with the green "Return to app" button. Tap it.
- The app reopens and downloads the key automatically.

Warning: the license is tied to the Machine Code of the phone from which you started the purchase. Make sure you buy from the phone on which you want to use the app: the key will not work on a different device.

If the "Return to app" button does not work (some browsers), you have lost nothing: reopen Speed Control 2 manually and tap "Recupera Licenza" / "Recover License". The key is downloaded the same way.

5. Activation and disclaimer

Before activating the unlock, the app requires you to read and accept a liability disclaimer. This step is mandatory.

- After activation a window titled "LIABILITY DISCLAIMER" opens.
- Scroll through the entire text until the end (the checkboxes remain disabled until you have scrolled all the way down).
- Check both boxes.
- Tap the green "Accept and Activate" button.
- Confirmation message: "Unlock Activated!". From this moment the speed limit buttons are enabled.

Info: the license status is always visible in the "License" section. If it is Full (F) it never expires. If it is Demo (D) or Expiring (S), check the date shown in the app.

6. Speed unlock

With the bike connected and the license active, you can now modify the limit.

- On the main screen you will find the limit buttons:
- - **25 km/h** (legal) — compliant with road traffic regulations
- - **NO LIMIT** — no limit
- - **16 / 32 / 48 / 64 km/h** — preset limits
- - **Custom speed** (1–99 km/h)

- Tap the button with the desired limit. The app sends the command to the bike via Bluetooth.
- The bike confirms the new limit (e.g.: "Speed Limit -> NO LIMIT").

Essential: to make the change effective, **TURN OFF and TURN ON** the bike. The controller applies the new settings only after a power cycle. Without this restart, the change is sent but not active.

Info: all speed buttons require an active license. The basic functions (power, lights, battery data) are **free** and always available without a license.

8. Troubleshooting

The app does not install

Enable installation from unknown sources: Settings > Apps > Manage permissions > Install unknown apps.

The key is not accepted

Check that the Machine Code shown in the app matches the one for which the key was generated. If you changed phones, you must request a new license. Check uppercase letters and hyphens.

Online verification failed

The first activation requires Internet. After the first verification, the license works **offline for 90 days** and renews itself every time you are back online.

I paid but the app cannot find the license

Go back to "License" and tap "Recover License". If "No license found" appears, check that you are on the same phone from which you paid. If it persists, contact support with the Machine Code and the PayPal order number.

The payment was interrupted

If you closed the browser before confirmation, nothing is charged: simply retry the purchase. If money was charged but the app did not activate, do NOT repeat the payment: contact support.

The bike is not found via Bluetooth

Turn on the bike, activate Bluetooth. If the bike is already paired in Android settings, disconnect it from there (keeping the pairing) and retry from the app.

Changes have no effect

Turn the bike off and on: the controller applies the new limit only after the restart.

Speed buttons do not work

Check that the license is active (green status) and the bike is connected (status "Ready!").

9. Legal warnings

Unlocking the speed limit above 25 km/h converts the pedal-assist bicycle into a moped not homologated for circulation on public roads. Using the modified vehicle on public roads violates current traffic regulations and European Regulation 168/2013.

The user declares and warrants that the modified vehicle will be used **EXCLUSIVELY** on private areas closed to traffic and not intended for public passage. Circulation on public roads, cycle paths and pedestrian areas is expressly forbidden.

Speed unlocking subjects mechanical and electronic components beyond the limits designed by the manufacturer, potentially causing damage to the vehicle and immediate warranty loss.

The user releases the app developers from any civil and criminal liability for damage to property or persons, injuries, administrative fines or vehicle seizures resulting from the modifications made.

Support: contact the app provider via the email provided at download time or on the official site.

Official site: <https://sblocca.bike/en/>