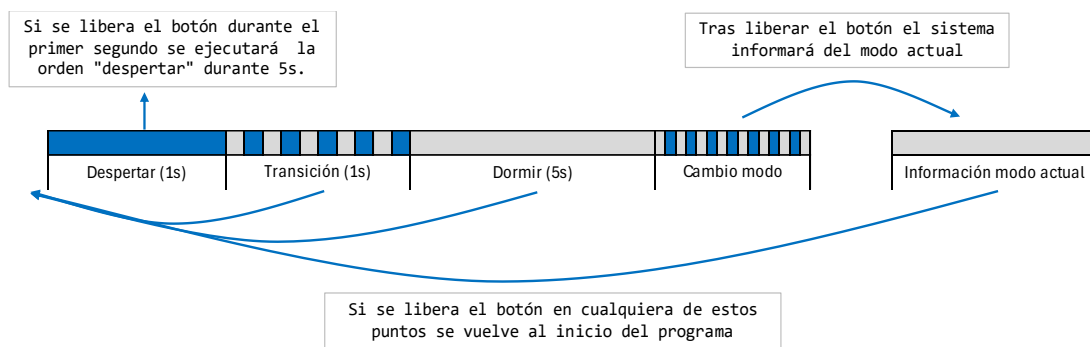


SLEEPBOX RAY 7.7 MANUAL

The Sleepbox device is designed to reduce the vampire drain of the Ray 7.7. This vehicle was built to maintain constant connectivity, resulting in daily energy consumption of approximately 1%. Sleepbox eliminates this consumption by deactivating all the motorcycle's systems, putting it into what we call a "sleep mode."

1. Working modes

Sleepbox can operate both automatically and manually. The following diagram illustrates the operating routine:



Working routine:

- **Wake up:** This activates the motorbike.
- **Transition:** This stage does not perform any actions on the vehicle and serves solely as an informational step for the user.
- **Sleep:** This stage sets the bike in sleep mode eliminating the vampire consumption.
- **Mode Change:** At this point, the mode will have increased by one unit.
- **Current Mode Information:** The system will blink at 1-second intervals to indicate the current mode. The following three modes are available:
 - **Mode 0:** In this configuration, the device will never put the motorcycle into sleep mode automatically, performing actions only when the user presses the button.
 - **Mode 1:** In this configuration, the device will put the motorcycle into sleep mode 1 minute after the key is removed. Each time the ignition is turned on, the timer resets.
 - **Mode 2:** In this configuration, the device will put the motorcycle into sleep mode 24 hours after the key is removed. Each time the ignition is turned on, the timer resets.

IMPORTANT NOTICE:

- 1- Unless the vehicle is updated to version 7.4.10 (also offered by E13 Engineering), the system will only detect that the motorcycle is on but will not recognize if it is charging. Therefore, in both Mode 1 and Mode 2, after the corresponding time has elapsed, the system will put the vehicle into sleep mode even if it is charging, completely halting the charging process.
- 2- The Sleepbox battery recharges from the Ray 7.7 when it is awake. Without power from the motorcycle, the Sleepbox's internal battery is designed to last for one year. In the event of a complete discharge, it can be recharged through the USB-C port by removing the top cover.
- 3- If the vehicle has naturally entered sleep mode after reaching 0% to protect the battery, it is crucial to connect it for charging immediately after waking it up. Otherwise, there is a risk of damaging the vehicle's battery due to over-discharge.