



Orion ELD

STAR01 Hardware Manual

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Overview

The STAR01 is an Electronic Logging Device (ELD) designed for use with the Orion ELD mobile application. Manufactured by PacificTrack and also known as the PT30, this device needs to be installed in your vehicle and connected directly to the J1939 diagnostic port to function correctly.

Installation Instructions

Important! Do not pair the STAR01 directly through your device's Bluetooth settings. Instead, initiate the connection exclusively through the Orion ELD app. If prompted, be sure to grant Bluetooth permissions, as the app relies on Bluetooth Low Energy (BLE) for communication.

Follow these steps to ensure the device is installed correctly:

1. Connect the STAR01 to the vehicle's diagnostic port **before** starting the engine or opening the Orion ELD app.
2. Check the LED indicators once the device is plugged in:
 - ◆ A **slow flashing green LED** confirms the device is powered.
 - ◆ A **flashing red LED** indicates the GPS is actively searching for a satellite signal.
 - ◆ A **solid red LED** shows the GPS has successfully locked onto a signal. You can continue the setup without waiting for GPS lock.
3. Start the vehicle's engine.
4. When the engine is running, a **rapidly blinking green LED** shows that vehicle bus activity has been detected.
5. A **solid green LED** indicates the device is fully registered with the vehicle's system and ready to be paired with the Orion ELD app.

Once the setup is complete, the device will store key details like the **Vehicle Identification Number (VIN)** and maintain its connection to the app via **Bluetooth Low Energy**.

Note! The LEDs may turn off intermittently as part of the device's power-saving behavior.

For additional setup information and troubleshooting, please refer to the full **Orion ELD User Manual**.



LED

Red

The **Red LED** indicates the GPS status on the STAR01 device.

The meaning of each light state is:

LED State	Meaning
Off	GPS is disabled to conserve energy; the backup clock remains active.
Blinking	GPS is actively searching for a satellite signal.
On	GPS has successfully locked onto a signal.

Green

The **Green LED** reflects the STAR01 device's connection to the vehicle's bus system.

Here's how to interpret the indicator:

LED State	Meaning
Off	No power source is connected to the device.
Short Blinking	The device is powered, but no vehicle bus is detected.
Fast Blinking	Bus activity has been detected; the device is in the registration process.
On	Full registration with the vehicle bus has been completed.



Bluetooth

The STAR01 uses Bluetooth Low Energy (BLE) to communicate with your mobile device.

Important! Do not pair the device manually through your phone or tablet's Bluetooth settings. Always initiate the connection within the Orion ELD application to ensure correct operation.

For complete setup and additional configuration details, please refer to the Orion ELD User Manual.