

# PRODUCT MANUAL

## EZ-ELD™



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## 1 Compliance Statement

This device has:

FCC ID: 2AKA8-ELD100A0  
IC: 22098-ELD100A0  
Model: ELD1.0  
PMN: EZ-ELD

This equipment complies with Industry Canada and FCC radiation exposure limits set forth for an uncontrolled environment.

**FCC Caution:**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Statement:**

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.

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.

**RSS-Gen & RSS-247 statement:**

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**RSS-102 Statement:**

This equipment complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme à l'exposition aux rayonnements Industry Canada limites établies pour un environnement non contrôlé.

## 2 Kit contents

- 4 OBD Connectors
- Extension Cable
- Quick Start Guide
- Product Manual
- Driver User Manual
- 2 QR Code Labels
- 2 Vehicle Stickers
- Double Sided Tape

### 3 Connector options

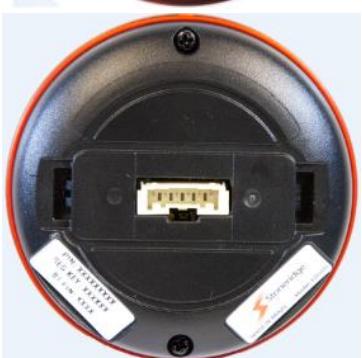
The EZ-ELD is shipped with the 9-pin connector already fitted. However, it also has 3 other connector options (6-pin, OBDII Light and Medium Duty Vehicles and OBII Volvo/Mack):



### 3.1 Remove the 9 pin connector

To change the connector type follow the guidelines of the item below.

ELD MAIN MODULE



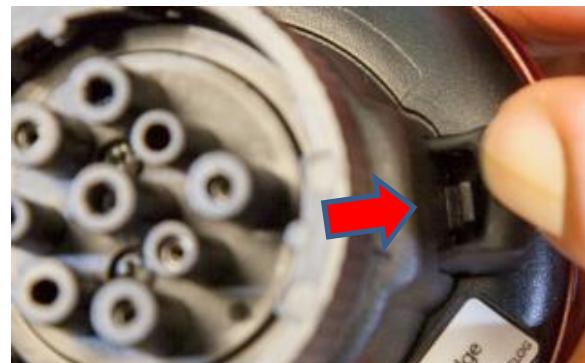
9P CONNECTOR  
for Dongle Configuration  
(Same for 6P Connector)



ELD Dongle with OBDII Volvo/Mack Connector  
(Same for OBDII Light and Medium Duty  
Vehicles Connector)



Pull the rubber on both sides



This lock must be leveraged to outside



Insert a "key" in the crack and make a lever to the inside of the module. Do one side at a time.



Side 1 unlocked



Part 1 and 2 are unlocked.  
Unplug the white connector

### 3.2 Insert the new connector

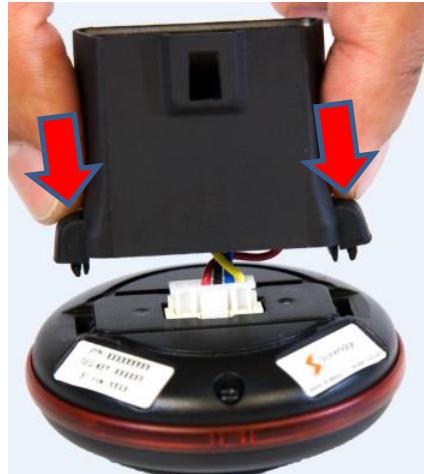


Plug the white connector on the module.  
Attention to the correct position





Rotate the connector so that the wires wrapping, thus improving the accommodation



Position the connector on the module and press it until you hear two clicks



In accordance with the need the connector can be mounted in one of two ways, rotated 180°.



### 3.3 Wire extender (installation on site with little space)



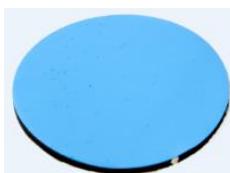
ELD main module



Wire extender



Cover adapter extender whip



Double side



OBDII connector. You can also use the 6 and 9 pins.

Top Cover

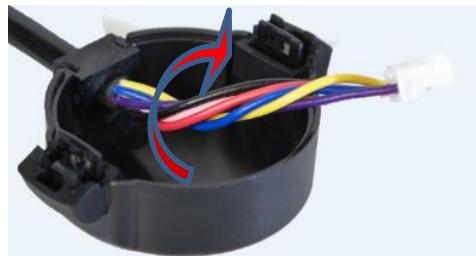


Bottom Cover



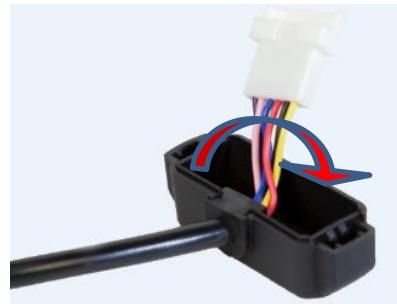
The Top Cover is used in the ELD main module and the Bottom Cover is used in the connector side

Remove the cover by following the same steps to unplug the connector of the module



Connect the end of the harness with female connector on the lower cover.

Wrap the wires for easy assembly in module ELD



Connect the end of the harness with plug connector on the top cover.  
Wrap the wires to facilitate assembly connector



OBDII connector. You can also use the 6 and 9 pins.

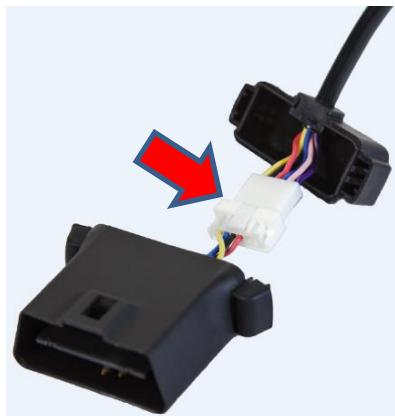


Plug the white connector on the module to the correct position



Position the connector on the module and press it until you hear two clicks

In accordance with the need the connector can be mounted in one of two ways, rotated 180°.



Plug the connector of the wire at connector OBDII. Attention to the correct position



Position the connector on the top cover and press it until you hear two clicks



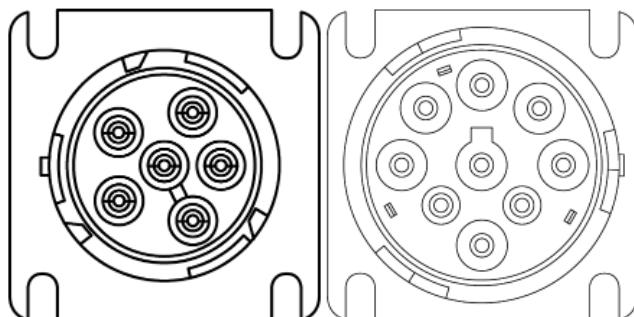
ELD module with extensor harness



Bond the double-sided tape on the module for mounting the same

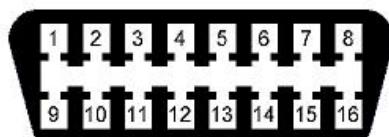
## 4 Installation Instructions:

1. Locate the truck's diagnostic port of the vehicle. Depending on the make and model, it may or may not be easy to locate. There are several locations to find the diagnostic port:
  - Under the dash or under the steering column/wheel on the left or right,
  - On the left or right of the pedals, above the pedals.
  - Above the footrest
  - In the fuses box
  - Near the hand break, near the clutch pedal handbrake.
  - In some cases you will also need to remove a plastic cover to find the connector.

**Heavy Duty Vehicles**

Deutsch 6-pin connector

Deutsch 9-pin connector

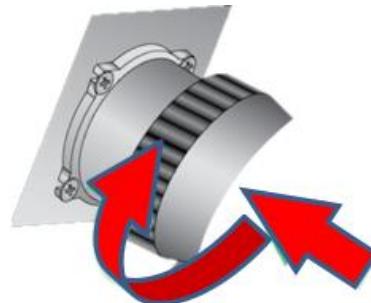
**Light and Medium duty vehicles**

OBDII Volvo/Mack Connector

OBDII Light and Medium Duty Vehicles Connector



2. Attach the dongle to the vehicle's diagnostic port. Rotate the collar to align the collar tabs with the matching slot on the diagnostic port, press firmly until the adapter cable is fully connected, then rotate the collar clockwise until it clicks:



Correct Installation:



Incorrect Installation:



Make sure to install the dongle in a place that will not block or interfere with the pedals or with the driver. In this case use the wire extender provided in the kit.

## 5 Led and Sound patterns

GPS	Data Bus	Led/Buzzer Pattern	First Connection Module Powered on	Not paired and not connected	Press the pair button (Green Light - 40 sec)	Bluetooth Connected	iOS Connected	Android Connected	Malfunction	Vehicle in motion Driver does not log onto the ELD	Press and hold button approx. 4 sec Delete Paired BT devices	Press and hold button approx. 12 sec. Factory Reset	
-	-	Continuous blink and sound								 			
-	-	Led blink 4 times/Buzzer								 			
NOK	NOK	Led blink 3 times		 									
OK	NOK	Led blink 2 times		 									
NOK	OK	Led blink 1 times		 									
OK	OK	Solid		 									
-	-	1 Chirp											
-	-	2 Chirps											
-	-	3 Chirps											

Light and Sound Pattern	Indication
2 Chirps (module powered on)	Whenever you attach the dongle to the vehicle's diagnostic port for the first time, the buzzer will chirp two times indicating that the module is powered ON
1 Chirp (Bluetooth paired and connected)	Press the button and release, the led will blink green for about 40 seconds, the buzzer will chirp one time indicating that the pairing and connection were successfully done and Bluetooth is connected.
2 Chirps (Deleted paired devices)	Press and hold the button for about 5 seconds and release, the buzzer will chirp two times indicating that the paired devices were deleted on the dongle.
3 Chirps (Factory Reset)	Press and hold the button for about 12 seconds and release, the buzzer will chirp three times indicating that the dongle is back to a factory state.
Yellow Led	Dongle is not paired and not connected
Green Led	Dongle is in pairing mode.
Blue Led	Bluetooth is connected to an iOS device.
White Led	Bluetooth is connected to an Android device.
Red Led (Blink four times)	Malfunction detected
Red Led (Continuous blink and sound)	Vehicle in motion and driver does not log onto the ELD.
Led blink three times (yellow, green, white or blue)	GPS Not OK and Data Bus (CAN) not OK
Led blink two times (yellow, green, white or blue)	GPS OK and Data Bus (CAN) not OK
Led blink one time (yellow, green, white or blue)	GPS not OK and Data Bus (CAN) OK
Led solid (yellow, green, white or blue)	GPS OK and Data Bus (CAN) OK

## 6 Download the EZ-ELD™ App

Download the EZ-ELD App for Android and IOS devices.

Search for EZ-ELD in the Google Play Store for Android phones and search for EZ-ELD in the App Store for iPhones and iPads.



For information on how to use the EZ-ELD™ App, please consult the “DRIVER USER MANUAL”.

## 7 Resetting the Dongle or Factory Reset the Dongle

If you are having problems with the Dongle, you can reset it and start again.

Resetting the Dongle will clear all the pairing data, delete any stored driving information and back the device to a factory state.

To factory reset the Dongle:

1. Make sure the Dongle is powered on.
2. Press and hold the dongle button for about 12 seconds.
3. Release the button
4. The internal buzzer will chirp 3 times indicating that the Dongle is back to a factory state.

## 8 Electrical Characteristics

### 8.1 Power Supply

Item	Min.	Typ.	Max.	Unit
Operating voltage	9	12	32	V
Average Current Consumption @ 12V (Full Power)		60		mA
Average Current Consumption @ 12V (Sleep) (*1)		1.8		mA

\* 1 – After protocol recognition and vehicle with engine off and Bluetooth disconnected

### 8.2 Bluetooth Chipset

Type / Version	Bluetooth 4.2 Dual Mode (Classic & LE)
Frequency	2.402 to 2.480 GHz
Class / Power	Class 2 (+2 dBm typ.)
Receive Sensitivity	-90 dBm (Classic); -92 dBm (LE)

### 8.3 GNSS Receiver

Constellations	GPS
Number of channels	48
Horizontal Position Accuracy (CEP, 50%, 24 hours static, -130 dBm, > 6 SVs)	2.5 m
Time-To-First-Fix (All satellites at -130 dBm )	Cold Start: < 35 s Hot Start: 1 s
Receive Sensitivity	Cold Start: -147 dBm Tracking: -163 dBm