



Overview

The TraceIT ELD is a two-part system designed with the driver in mind. The user experience has been carefully crafted to minimize the impact on driver distractions, and workload. The FMCSA outlines very strict rules on the functionality of an ELD. Despite this, substantial effort has been made to create a platform that is second to none.

The TraceIT ELD system consists of a hardware device that connects to the vehicle Engine Control Unit (ECU) through either a round 9 PIN, or a standard OBDII connector. Once installed in the vehicle, the hardware is neither serviceable nor does it require any maintenance. Equipped on each device is a three-light alert system that indicates whether the device is connected to the engine ECU, whether there is a GPS signal lock and whether the device is connected to an approved Bluetooth smart device running the TraceIT application.

The second part of the TraceIT ELD solution is a robust smart-device application (app) designed to run on any iOS or Android operating system. All driver interactions are made through the app, which also displays relevant details to the driver at the appropriate time. Drivers can set their duty status, perform DVIR inspections, edit and certify their logs, and display and send information during a roadside safety officer inspection.

This manual has details on all the major elements of the ELD. You can find video tutorials of these materials on our web site at www.TraceITELD.com/tutorials

Installation

Hardware Installation

Following are the general steps to install the hardware ELD in your vehicle. Due to the large variations across manufacturers and models, it is impractical to outline specific details pertaining to your vehicle. You may have to purchase additional zip ties, or use other means to secure the ELD to the truck. TraceIT technical support staff are available by phone or email during normal business hours, should you need assistance.

Supplied in each kit are the following items

1. The ELD
2. Y cable harness
3. Two zip ties
4. "ELD IN USE" vehicle decal

Installation Guidelines

1. Park the vehicle on level ground with the parking brake engaged and the engine and ignition turned off.
2. Locate the OBDII or 9 PIN JBUS diagnostic connection for your vehicle. You may have to consult the service manual to locate this component.
3. Detach the vehicle connector end (female OBDII or 9 PIN JBUS) from the mounting point on the vehicle (usually 2 or 4 screws – save to use in step 5).
4. Find the cable harness supplied with the ELD and confirm that the harness is appropriate to the installation.
5. Mount the female end of the supplied cable harness to the same location as listed in the step 3 (same screws can be reused).
6. Connect the male end of the cable harness to the female connector (vehicle side) removed in step 3.
7. Based on the location of the connection, and the length of harness, determine a suitable location to secure the ELD.
 - a. The ELD must be located such that it can receive a GPS signal lock.



- i. ELD can be mounted UNDER the dash if needed.
 - ii. Do not mount in direct sunlight (on the dash), as excessive heat can cause the device to malfunction.
 - b. The ELD must be secured to the vehicle such that it will not rub or chafe against any adjacent components.
 - c. The ELD must be secured such that it does not shake or vibrate excessively, relative to the rest of the vehicle.
 - i. Find an anchor that is part of the chassis or another major vibration-free point.
 - ii. It is strongly recommended that you use zip ties to anchor the ELD.
 - iii. Using double sided tape or adhesive Velcro strips could result in malfunction of the ELD.
8. Route the cable and secured to prevent chafing and not be a hazard to the driver.
9. Connect the 14 pin Molex end of the cable harness to the ELD.
10. There are three indicator lights on the ELD – orange, green and blue.
 - a. When the unit is connected to the vehicle, all the lights will illuminate and flash randomly indicating the unit is receiving vehicle power and performing a self-check.
 - b. A steady flashing orange light confirms the unit has acquired a cellular signal lock.
 - c. A steady flashing green light (30 – 60 seconds later) confirms the unit has acquired a GPS signal lock.
 - i. If no GPS signal lock is confirmed, you may have to move the ELD to another location where it can receive the signal.
 - d. A steady flashing blue light confirms the unit has acquired a Bluetooth signal lock to your smart-device.
 - i. This light will not illuminate until you connect your smart-device to the ELD.
11. Attach the ELD to the previously selected anchor point using the supplied zip ties. You may have to use additional zip ties strung together in order to accomplish this.
12. Secure any loose wiring to prevent chafing.
13. Start the vehicle and check that the ELD does not vibrate excessively and that it is clear of any adjacent items to prevent chafing.
14. Replace any components removed to access the vehicle diagnostic connector.

Application Installation

The TraceIT Driver application is available in the iOS App Store and the Android Play Store. Download and install the application specific to your device. Driver profiles will be created by the fleet administrator. As long as the profile exists in the TraceIT database, drivers will be able to login using the assigned credentials.

Profile Creation

Profiles should be loaded in the TraceIT web portal by company fleet administrators.

1. Login to the TraceIT web portal using an authorized non-driver account.
2. Driver profiles are created by navigating to the following: Profiles > Company Drivers > Add New.
 - a. Click the edit button of an existing profile to make changes or reset login passwords.
3. Truck profiles are created by navigating to the following: Profiles > Trucks > Add New.
 - a. Click the edit button of an existing profile to make changes
4. ELD's are assigned by TraceIT to each client. These can be found by navigating to Profiles > ELD
 - a. Click the edit button for an existing ELD to make changes
 - b. ELD's can be assigned to specific trucks in this section
 - c. Truck profiles must be created prior to attempting to assign an ELD



Application Use

The TraceIT ELD solution functions seamlessly between all components. All user actions are completed either through the app, or the web portal. Your login is the same across both platforms.

Login and Overview

1. Launch the TraceIT Driver Application on your smart device.
2. Login using the credentials assigned by your company fleet administrator.
3. The application will bring you to the main Job List screen.
 - a. If your company is not using the dispatch function, this screen will not have any information.
4. The three-bar menu button at the top left will open the main menu.
 - a. For ELD and HOS purposes, you will use the HOS Logs tab.
 - b. You can edit your profile if needed in My Profile.

Connecting To ELD

1. The application will remember the last vehicle that you were driving and show the vehicle number in the bottom left corner.
2. When you are in range of the Bluetooth connection for the ELD, the app will automatically connect to the ELD. You can confirm this when the Bluetooth symbol at the bottom left of the screen turns from red to blue.
3. If a vehicle change is required, the following 2 methods can be used:
 - a. Tap the Truck # text at the bottom left of the screen, and select a different truck from the available options.
 - b. Your fleet administrator can assign a different truck to you in the web portal.

Setting Duty Cycle: Option 1

1. Tap the main menu button at the top left of the screen.
2. Select My Profile.
3. Tap Edit on the top right of the screen.
4. Tap the Wrench icon on the top right of the screen.
5. Set cycle rule, and any exception elections.

Setting Duty Cycle: Option 2

1. Tap the main menu button at the top left of the screen.
2. Select the HOS Logs tab
3. The current day and previous 7 days logs will be displayed here.
4. Select the current day log.
5. Tap the three-button icon at the top right of the screen.
6. Tap Cycle Rule.
7. Tap Edit.
8. Make selections, then press Save at the top right of the screen.

Duty Status Actions

1. Tap the Driver Status button in the middle of the bottom menu bar
2. Select the appropriate duty status selection.
 - a. When the ELD detects vehicle speed above 5mph, the duty status will automatically set to Driving
 - b. When the ELD detects vehicle speed at 0mph for 5 minutes, a reminder will pop up asking to change duty status to On Duty Not Driving. If no action is taken, after one minute the duty status is automatically changed to On Duty Not Driving.
 - c. Driver can manually set the duty status to On Duty Not Driving when vehicle is stopped.



3. If you are NOT in Off Duty status when logging off from the app, a reminder will pop up. Make a selection as appropriate and select "OK."
 - a. Your duty status will remain until you change it after your next login.
 - b. You may change your status on the web portal if you do not have access to the TracelT app.

Driver Logs and DOT Inspections

Within each day's log are three tabs: LOG, INFO and DVIR. All entries in the LOG and INFO tabs must be filled out in order to certify logs for that date.

TracelT recommends that you certify logs at the end of your daily shift. This will prevent the accumulation of uncertified logs, and allow your fleet administrator to make any edits if needed. Fleet administrators cannot make edits to a log until certified for the first time by the driver.

Edit & Add Logs (LOG Tab)

1. Tap the main menu button at the top left of the screen.
2. Select the HOS Logs tab
3. The current day and previous 7 days logs will be displayed here.
 - a. You will have to log in to the web portal in order to view logs older than 7 days.
4. Select the day for which you would like to edit logs, or make additions.
5. Tap on LOG in the daily log view.
 - a. You can edit existing log entries (except automatically recorded Driving time) or add new entries as needed.
 - b. To edit an existing log entry, tap on the entry to be edited to open the edit function.
 - i. Depending on the entry and time range you may make necessary edits.
 - ii. Notes are required anytime a change is made.
 - iii. Automatically recorded log entries cannot be changed in any way, except to add a note if needed.
 - c. To add a log entry, tap the Add Log button located under the graph.
 - i. Complete all sections marked with an *.
 - ii. Entries that override automatically recorded driving time are not allowed. An error message will display.

Enter Shipping ID and Company Name

1. Tap the main menu button at the top left of the screen.
2. Select the HOS Logs tab
3. The current day and previous 7 days logs will be displayed here.
 - a. You will have to log in to the web portal in order to view logs older than 7 days.
4. Select the day for which you would like to edit logs, or make additions.
5. Tap INFO in the daily log view.
 - a. The Company Name and Shipping ID will automatically prefill when the information is available.
 - i. If the field is blank, or needs to be changed, tap on the box and enter the correct information.
 - ii. Logs cannot be certified without this information.

Creating a DVIR

1. Tap the main menu button at the top left of the screen.
2. Select the HOS Logs tab
3. The current day and previous 7 days logs will be displayed here.
 - a. You will have to log in to the web portal in order to view logs older than 7 days.
4. Select the day for which you would like to view or edit DVIR, or make additions.
5. Tap DVIR in the daily log view.
6. Tap EDIT DVIR to create or edit a DVIR.
 - a. Entries can be added or edited for the current day only.



- b. To change a DVIR condition from a prior day, create or edit the current day DVIR.
- c. DVIR can be created for TRACTOR and TRAILER.
- d. When DVIR is completed, click Save at the top right.

Certify Logs

1. Tap the main menu button at the top left of the screen.
2. Select the HOS Logs tab
3. The current day and previous 7 days logs will be displayed here.
 - a. You will have to log in to the web portal in order to view logs older than 7 days.
4. Select the day for which you would like to edit logs, or make additions.
5. Tap blue Preview & Certify button at the bottom of the daily log view.
6. Review the information on the certification page and check for any errors.
 - a. If you find any errors, tap the back button on the top left of the screen and edit as needed.
7. To complete the certification process, tap the Certify button.
 - a. You may still change log information at any time.
 - b. If you make any changes, you will have to Re-Certify the logs. The process is the same (steps 1 thru 7).
8. Logs can be amended by the fleet administrator only after they have been certified.
 - a. If the logs are amended, the driver must Re-Certify the logs.

DOT Inspection

1. Tap the main menu button at the top left of the screen.
2. Select the HOS Logs tab
3. Tap DOT Inspection at the top right of the screen.
4. Tap Begin Inspection and hand the device to the inspector
 - a. Once in the DOT Inspection phase, the bottom menu bar will disappear.
 - b. The menu will reappear when the back button is tapped.
5. Swipe left or right to view information from desired date.
 - a. Details for the current day, plus the prior 7 days are available.
6. To transmit the logs to the FMCSA, press the Transmit button at the top right of the screen.
 - a. Enter a file comment in the window if appropriate.
 - b. Select Web Services or Email as the transfer method.
 - c. When logs are sent, a confirmation window will display.