

LV9000

Electronic Logging Device (ELD)



User Manual

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Table of Contents

| System Overview | 4 |
|--|------|
| Problems Solved | 4 |
| Features | 4 |
| Product Disclaimer | 4 |
| System Components | 5 |
| LV9000 Overview | 6 |
| Log into the LV9000 | 7 |
| Authenticating your ID | 7 |
| Select Record of Duty Status (RODS) | 7 |
| Add additional trip details (optional and configurable by fleet) | 8 |
| Certify and Edit Logs from Previous Days | 8 |
| Log out the LV9000 | . 10 |
| Main Menu Screen | . 10 |
| User Interactions | . 11 |
| Complete Driver Vehicle Inspection Report (DVIR) | . 11 |
| Confirm Previous Driver Vehicle Inspection Report (DVIR) | . 11 |
| Change the Record of Duty Status (RODS) | . 12 |
| Check remaining record of duty status hours | . 12 |
| Special Driving Conditions | . 13 |
| Assume Unidentified Records | . 13 |
| Team Driving | . 14 |
| Start a trip | . 15 |
| End a trip | . 15 |
| Agricultural Exemption (AgEx) | . 15 |
| Review ELD logs | . 16 |
| Edit ELD logs | . 17 |
| Review suggested ELD log edits | . 18 |
| Roadside Inspection Compliance | . 19 |
| Split Sleeper Use | . 20 |
| Motion lock screen | . 20 |
| Messages | . 20 |
| Associate shipment and/or trailer numbers | . 21 |
| | |



| LV9000 Settings and Current Status | |
|------------------------------------|----|
| Display settings | |
| Volume control | |
| External Device Control | 21 |
| View Current Device Status | 22 |
| Sensors | |
| Jobs | 22 |
| Malfunctions and Diagnostics | 23 |
| Malfunction definitions | 23 |
| Diagnostic definitions | |
| Specifications | |



System Overview

The PowerFleet Electronic Logging Device (ELD) system consists of a Mobile Data Terminal (MDT) in the vehicle, in this case the LV9000, that communicates via cellular communication to an internet-based fleet management system. This user manual is designed to guide drivers in the use of the PowerFleet ELD system in order to automate their Hours of Service (HOS) driver logs, sometimes referred to Record of Duty Status (RODS), as required under FMCSA mandate in the US.



Problems Solved

The LV9000 serves as a tool to maximize fleet operational efficiencies by linking the driver and truck with back-office transportation and fleet management systems, a tool to keep drivers knowledgeable about their current or short-term future safe driver status, as well as an Electronic Logging Device (ELD) that meets FMCSA ELD Mandate requirements.

Features

- Minute by minute GPS reporting
- Reduce idle time and fuel burn
- Reduce logging errors and risk of log violation
- Customizable driver workflows based on internal company rules and requirements
- Performance data on drivers and trucks
- Identify maintenance problems before they happen
- Real-time delivery information and up-to-the-minute hours-of-service information

Product Disclaimer

All specifications are subject to change for product improvement without notice. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies.



System Components

The LV9000 system is shipped with everything needed to install the system.

| Component | Description | Quantity |
|-------------------|--|----------|
| LV9000 | Mobile data terminal | 1 |
| SD card | 16GB SD card shipped in the LV9000 | 1 |
| SIM card | Cellular network association card shipped in the LV9000 | 1 |
| Mounting bracket | Custom bracket designed to fit the back of the LV9000 | 1 |
| Mounting screws | M4-0.7x8mm Phillips head for mounting the LV9000 to the bracket | 4 |
| Install screws | #10x25mm self-tapping screws for installing the bracket to the vehicle | 4 |
| Connection cable | Multi-connector cable for power, ECM, etc. connections | 1 |
| Antenna, external | Cellular and GPS external antenna. | 1 |

Other components typically required that are not supplied (tools also not supplied):

- Torx Bit Set (T15-T40)
- Trim Panel Removal Tool
- Cordless Drill (Battery & Charger)
- Locktite Threadlocker 243 Blue
- #2 Phillips Screwdriver
- Hex Bit Set (SAE)
- Step Bit (capable of 1" hole) or 1" Hole Saw (Over-mold on cable will require 1" hole



LV9000 Overview



| 1 | Current ELD status of active driver | 10 | Navigation | |
|---|--|----|--|--|
| 2 | Duty status indicator icon, driver identifier and salutation. If co-driver is logged into unit, their name will show on same line in gray. | | Sensors: Shows vehicle trip performance info | |
| | ద్రి ở Off duty ు రాష్ట్ర Special On duty not driving | 12 | Tools: Change volume and brightness, etc. | |
| 3 | Engine connection indicator Engine ignition is off Engine ignition is on | 13 | ELD Inspect: Shortcut to sharing ELD logs with an inspector. | |
| 4 | Communications signal strength | 14 | PWR: Turns the device on and off when powered | |
| 5 | GPS connection indicator GPS not triangulated GPS triangulated | 15 | F1: Touch when in Motion Lock to toggle between navigation and the main menu (F2, F3, F4: Not used) | |
| 6 | Error Diagnostic Indicator (blank if no diagnostic active) | 16 | Reset: Hold this button down for 8 seconds to reset (only if instructed to do so by management or support. | |
| 7 | Messages: Touch to view or send messages | 17 | LED status indicator: = engine on with good GPS and comm = engine off = disconnected from vehicle, cellular, or GPS | |
| 8 | ELD: Touch to change duty status and review ELD information | 18 | Back: Press to go to previous screen | |
| 9 | Jobs: Select jobs if integrated with a Transportation Management System (TMS) | 19 | Home: Return to main menu from Navigation | |



Log into the LV9000

Authenticating your ID

- 1. If the LV9000 screen is off, press the PWR button to turn it on.
- 2. Once powered, the device displays a login screen. When this screen is displayed, you can be sure that no one else is logged in.
- 3. Touch 'Enter Login ID' to use the soft keypad to enter your ID (provided by your fleet manager); then touch OK
- 4. Touch 'Enter Password' to use the soft keypad to enter your corresponding password (provided by your fleet manager); then touch OK. Passwords are case sensitive. Use 'case toggle' to change case. For security, only the current password letter entered will show on the screen (previously entered letters/numbers showing as stars).
- 5. Touch Login. You will be presented with your hours of service (HOS) check screen. If you do not get the current hours display, the LV9000 cannot connect to the website, so check cellular coverage of the device. You cannot move to the next step without retrieving your current hours.
- 6. After confirming your HOS, touch Login to log into the device. For team driving, the co-driver then needs to log in following the same process.





7. Once successfully logged in, the device will download your hours of service history from the website, then you will be prompted to select your duty status.

Reminder: A supply of blank driver's 'records of duty status' (RODS) graph-grids sufficient to record the driver's duty status and other related information for the duration of the current trip is required to be in the vehicle at all times.

Select Record of Duty Status (RODS)

1. Immediately following a successful login, the operator is required to select their duty status. Touch a status icon to continue. Status' acceptable to the FMCSA are:

Driving: Select this status when driving. (*Note the LV9000 will automatically switch to 'Driving' status once it detects the vehicle is moving and you are in either the Sleeper Berth or On Duty Not Driving categories.*)



Off Duty: Select this status when not working (including Personal Conveyance)

On Duty Not Driving: Select this status when working but not driving and not in sleeper berth (including Yard Moves).

Sleeper Berth: Select this status when working and in the sleeper berth



After selecting your status, you are prompted to confirm your time and location for starting that status. Touch OK to continue or Change to update either or both of those details.

| Login | w 📶 🗘 🖷 |
|---|---------|
| CONFIRM LOGIN FOR | |
| 1972 | |
| Shad Bell: On Duty Not Driving | |
| at 15:24 EST for Shad Bell Location: 1mi WSW CT North Canton | |
| OK Change | |

Add additional trip details (optional and configurable by fleet)

If your company is capturing additional activity detail within the Hours-of-Service category, you will next be presented with a list of activities that are available within the chosen category. This list is customized by your company. You may also be prompted to enter additional details like shipping or trailer numbers.



Certify and Edit Logs from Previous Days

Once you are logged in and select a current status, if you have uncertified logs from previous days, you will be prompted to complete that certification.





1. If the log is correct, touch Accept and you will be prompted to confirm by touching Agree or Agree & Certify

2. If you are not in a position to certify logs at this time, touch

ready again to proceed. Once the delay expires, the

LV9000 will prompt you again to certify the logs.

Not ready and you will be prompted to enter how long you

need before you will be ready to certify the log. Touch Not



 If the log requires changes, touch Edit and you will be presented with a list of records for the log in question. Use ↑ and ↓ to scroll through the records and find the one(s) you want to edit. Touch the record you want to edit to proceed.



- 4. On the edit screen, find the field(s) you want to edit, touch them one at a time and update the information as required. Touch OK when the changes are complete. The fields that can be edited are:
 - Code: Status Change Your status for the record
 - Accumulated Miles Miles traveled during the record
 - Total Miles Total miles for the day
 - Elapsed Engine Hours Engine hours during the record
 - Total Engine hours Total engine hours for the day
 - Location location for the record
 - Distance since last valid GPS
 - Vehicle
 - VIN



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5. You can also touch Add Info to add information for the edits being made. Touch the item you want to add (Comment, Shipping Doc, or Trailer Nos.)



Log out the LV9000

- 1. Touch ELD on the screen
- 2. On the Hours page, touch Drivers from the bottom menu
- 3. Touch Logout
- 4. You will be prompted to select a new status outside the vehicle
- 5. A confirmation screen will present the time and location of the change. Touch OK and you will be logged off.



Main Menu Screen

Once you have fully completed the login process, you will be presented the main menu. From here, you can send and receive messages, access navigation, view canbus and ECM/Trip information, MDT tools, Integrated jobs dispatch information and Hours of service.





User Interactions

Complete Driver Vehicle Inspection Report (DVIR)

Drivers are required to complete vehicle inspections after every vehicle use. To complete a vehicle a vehicle inspection you need to be logged into the LV9000, then:

- 1. Change the driver status to On Duty Not Driving
- 2. Start a new trip as Other → Post Trip
- 3. The DVIR will be displayed
- 4. Complete the vehicle inspection prior to entering details in the LV9000
- 5. If any items in the inspection require feedback (if there are no issue, skip this step), and for each one:
 - a. Touch Add
 - b. Type a comment for the reviewer of the DVIR
 - c. Touch criticality of the feedback (Yes = critical, No = not critical)
- 6. Once all inspection input has been added, touch Next
- 7. You will be asked of a trailer is included, touch Yes or No
- 8. If you have a trailer
 - a. Enter the trailer number
 - b. Touch Next
 - c. Complete the trailer DVIR in the same manner you completed the truck DVIR
- 9. Touch Send

Note: You can also complete a DVIR by going to messages and selecting 'DVIR...' from the list. Some companies may also require drivers to complete vehicle inspections prior to vehicle use. Pre-trip inspections may be auto prompted or the driver needs to access it via 'Pre-Trip' status.

Confirm Previous Driver Vehicle Inspection Report (DVIR)

Each driver is required to confirm review of the previous driver's vehicle inspection report prior to using a vehicle. After logging into the LV9000, you will either be immediately prompted to confirm the DVIR, or you will need to:

- 1. Change status to On Duty, Not Driving
- 2. Start a new trip as Other → Pre Trip
- 3. A request DVIR screen is displayed, touch Send
- 4. The last post-trip DVIR will be displayed, review it and touch OK
- 5. Confirm you understand the DVIR by touching Send

Note: You can also review the last DVIR by going to messages and selecting 'Request DVIR' from the list.





Change the Record of Duty Status (RODS)

- 1. Touch ELD on the screen
- 2. On the Hours page, touch Change from the bottom menu
- 3. Touch the new duty status
- 4. A confirmation screen will pop up that confirms the category you are entering, and it confirms the GPS determined location where the activity began. Touch OK.
- 5. If the LV9000 cannot determine its position via GPS at the <u>Change Drivers Finish Back</u> time of your duty status change, you will be prompted to enter your location manually. Enter your location identifier by touching Press Here. The identifier you use must be a minimum of 5 characters.
- 6. After confirming the ELD category and location, you will next be prompted to choose any additional activity detail within the Hours of Service category, if your company captures this detail.
- 7. Once completed, the new activity will show at the top of your status choice list in the hours tab.

Note: It is never required to choose 'driving' status. The LV9000 is synchronized with the GPS and will automatically place the vehicle in drive status as soon as the vehicle reaches 5 MPH.

Check remaining record of duty status hours

To view your remaining record of duty status at any time:

- 1. Touch ELD on the screen
- 2. Touch Remaining on the top tabs. This will display
 - a. Time you have left for driving
 - b. Time you have left for on duty
 - c. Time until the next required 30-minute break
 - d. Start time and distance traveled for the day.
- 3. Touch **Details** to view
 - a. The hours of service rule the ELD is following
 - b. Hours remaining based on the 7 / 8 day rule
 - c. On duty hours in the last 7 / 8 days
 - d. Total on duty and driving time today
- 4. Touch **Planning** on the top tabs to view:
 - a. On duty hours in the last 7 / 8 days
 - b. Hours available tomorrow
 - c. Hours available in 2 days

| Но | urs Remain | ning ELD | | wanti 🗘 🖷 |
|----------------------------------|--|--|------------------------------|-----------------|
| <i>R</i> | 🔰 1972 (Sha | d Bell) | | Details |
| Di 24 Di | ive: 11:00 E Hour Start stance trave | Duty: 13:45 Bre Time: 03/12 0 elled today: 0.0 | ak: 8:00 19:59 am) mi | |
| Remaining | Planning | AG Exempt | | witl 🗘 🖷 |
| | | 1972 | (Shad Bell) | |
| | 11:0 | 0 | 13:4 | 14 |
| | Drivi | ng | On D | uty |
| 24 Hour | Start Time: | 03/12 09:59 a | m Distance travelle | d today: 0.0 mi |
| US Regul 7/8 Days Total on | ation 8/70 (Rule (Rema duty 7/8 da | Sep 2020) iining): 11:00 y: 30:43 | | |
| Total Dri | /ing: 0:00 | т | otal on duty: 0:15 | |
| | | | | Back |

| Hours | Remaining | | | w antil 🗘 🖷 i |
|---------------------------------|---|-------------------------------------|--------|---------------|
| £ | Wed Mar 1 | 0 1972 (Shad Bell |) | |
| ଭ ଭ ଜ ଦ ଦ ଦ ଦ | 15:35 Waitin; 15:35 Start T 15:25 Waitin; 15:16 Driver | g rip g for status 1 Login | | |
| v | | | | |
| C | hange | Drivers | Finish | Back |



Special Driving Conditions

If required for your operation, management can assign the special driving condition categories like yard moves and/or personal conveyance to your driver ID. You will see the special driving categories allowed under your ID at login. You will also see allowed special category status under the driver tab in ELD info.

To choose the special driving category 'Yard Moves' you must first be in an 'On Duty' status. Then:

- 1. Touch ELD on the main screen
- 2. Touch Change on the bottom menu
- 3. Touch Set Special Driving Conditions
- 4. Touch Yard Move
- 5. You will be prompted to enter a reason for the yard move. Then touch OK.

Once in Yard Moves, the driver will remain in that status until they either key the ignition off and back on, changes duty status or he ends the status. To end the status, follow steps 1 through 3 above and touch End PC/YM from the list.

To choose the special driving category 'Personal Conveyance', you must first be in an 'Off Duty' status. Then:

- 1. Touch ELD on the main screen
- 2. Touch Change on the bottom menu
- 3. Touch Set Special Driving Conditions
- 4. Touch Yard Move
- 5. You will be prompted to enter a reason for the yard move. Then touch OK.

To end personal conveyance, follow steps 1 through 3 above and touch End PC/YM from the list.

Note: ELDs will not automatically go into drive status until these statuses have been ended.

Assume Unidentified Records

If driving in a vehicle when not logged in, the driver will see a visual warning on screen as well as an audible alert, letting them know that a driver is not logged in to the system. If the vehicle is driven above the ELD mandated drive initiation speed of 5 MPH without a valid driver logged in, the driving detail is associated with the 'Unassigned' driver.



| Change ELD Status W+atl C Solo Solo Solo Solo Solo Solo Solo S | | | | | | |
|--|---------------|---------|------------------------|-------------------------------------|--|--|
| රි → Off Duty | Sleeper Berth | Driving | On Duty Not Driving | Set Special Driving Condition | | |
| Back | | | | Logout | | |

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The ELD mandate requires that drivers logging in to the system be given an opportunity to accept generated

unassigned driving into their RODS. All subsequent drivers logging in to the LV9000 after an unassigned record is generated are presented with a notification listing all the unassigned records on the LV9000 until someone accepts that record. Each driver will only be prompted once for a particular record if they reject it.

- 1. Touch Next
- 2. Touch the record to see the detail
- 3. Touch Accept or Reject to take the record or ignore it.
- 4. If you accept, you are presented the record details with an opportunity to edit them (see Edit ELD record).

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5. Touch Reject All to ignore unassigned records.

Note: If you accept records from previous days, you will be required to re-certify those days.

| Unide | entified | watt 🗘 🖷 |
|-------------|--|--|
| Cha | d Doll | |
| Sha | | |
| This | ELD contains one or more n | ew unidentified driving records. On the next |
| page | e please select each record a ct thom all | nd accept or reject it, or press reject all to |
| reje | | |
| | | |
| | | |
| | | |
| identified | | Wtil 🗘 📹 |
| 2-Mar-21 1 | 7:57:58 - 12-Mar-21 18:00:43 | |
| | | |
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| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| AIN. IGIN U | me unidentified driver record | waati 🔶 📥 |
| | | |
| | | |
| Shad | Bell do you wish to assume d | Iriving time associated with the unidentified |
| drive | r from 12-Mar-21 17:57:58 ur | ntil 12-Mar-21 18:00:43? |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Accept Reject | Back |
| | | |

Team Driving

If your company runs teams, then your LV9000s will be set up to accept a co-driver. When a team logs into the LV9000, the driver who will be driving first, or the 'Active' driver, will log in first, followed by the co-driver. See Log in section for details on logging in.



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Once both drivers are logged in, you will see the active driver's name in the upper left and the co-driver in the upper right. If at any time you need to switch who the active driver is, you:

- 1. Touch ELD on the screen
- 2. On the Hours page, touch Drivers from the bottom menu
- 3. Touch Switch to change the driver from the active driver to the alternate driver

To view or change the Co-Driver's RODS

- 1. Touch ELD on the screen
- 2. Touch the CoHRS tab on the top
- 3. Follow the same steps as the active driver

| Drivers | | Walil 🗘 📥 |
|--|----------------------|-----------|
| Active Driver: Å 1972 (Shad Be Drive: 0:00 Duty: 0:0 | l) 00 Break: 0:00 | |
| Inactive Driver: ດີີ 4444 (Scott Wa | lker) | |
| | | |
| | | |

To review or edit the Co-Driver's ELD logs, or send them to an inspector

- 1. Touch ELD on the screen
- 2. Touch the CoELD tab on the top
- 3. Follow the same steps as the active driver

Start a trip

The LV9000 can be configured as a stand alone ELD or be integrated with a Transportation Management System (TMS). If integrated with a TMS, then your trailer and shipping document numbers will be presented to you for confirmation as a part of your normal workflow and automatically affiliated with your ELD record. If your fleet does not use a TMS to start a trip:

- 1. Touch ELD on the screen
- 2. On the Hours page, touch Start
- 3. Touch Yes. You will be presented with additional trip input details.

End a trip

- 1. Touch ELD on the screen
- 2. On the Hours page, touch Finish
- 3. Touch Yes. You will be presented with a screen to start a new trip or choose other.

Agricultural Exemption (AgEx)

The FMCSA provides exceptions from the hours of service rules, during State determined planting and harvesting periods, for the transportation of agricultural commodities within a 150 air-mile radius from the source of the commodities.

The LV9000 Ag Exempt tab on the ELD \rightarrow Remaining \rightarrow Details screen displays the driver's Agricultural Exempt status based on integrations with transportation management systems that support the Ag Exempt process.

Without a integration to an Ag Exempt process, drivers can comply with Ag Exempt rules by following the guidelines in the FMCSA agricultural exemption workflows (<u>https://www.fmcsa.dot.gov/hours-</u><u>service/elds/eld-hours-service-hos-and-agriculture-exemptions</u>)</u>. When a driver is operating within 150 airmiles of the source of the pickup, the driver changes the RODS to personal conveyance and adds an annotation to note the move as Ag Exempt.



Review ELD logs

There may be times when you discover you want to review historical logs based on your hours remaining on the LV9000. To review past logs (within 8 days of the current date):

- 1. Touch ELD on the screen
- 2. Touch ELD on the top tabs. This will display the todays log up to the point you entered the screen.



- 3. Use the \leftarrow and \rightarrow to scroll to previous and next days
- 4. Use the ↑ and ↓ to change from the chart view to the text view of each change in status
 a. In text view, touch the record to see details of the status change



5. Touch Info to see additional details about the log.

| ELD | Driver | Assoc | Deferred | Unidentified | W attl 🗘 🍋 |
|-------------------------|--|----------------------------------|----------------------|--------------|------------|
| ELC NG Driv NG |): Malfur DNE ver 0: Da DNE ver 1: Da DNE | nctions: Ita Diag Ita Diag | nostics: nostics: | | |
| | | | | | Back |



Edit ELD logs

There may be times when you discover you need to edit historical logs on the LV9000. To review past logs (within 8 days of the current date):

- 1. Touch ELD on the screen
- 2. Touch ELD on the top tabs. This will display the todays log up to the point you entered the screen.
- 3. Find the log you want to edit and touch Edit on the bottom menu.
- 4. You can edit the log in 2 ways:
 - a. Touch on the chart in an area you want to log to reflect. In this example, the driver wants to change the log from 4pm to 5pm from off duty to driving. By touching the 4pm-5pmsection of the chart on the driving line, the chart shows the proposed edit with red lines.
 - b. Touch Apply to accept the change.





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- c. Scroll down to the records and touch the record you want to edit, then touch the blue highlighted item you want to edit.
- d. Enter the edits
- e. Touch Apply to accept the change



- 5. Once all the changes are made, touch Save
- 6. You will be prompted to enter details as to why you made the change. Enter the reason and touch Save to complete the log edit.



Review suggested ELD log edits

There may be times when your supervisor recommends edits to your ELD logs. The decision is entirely yours to accept or reject these edits.

- 1. You will be prompted when suggested edits come in.
- 2. Touch Yes to review the suggestion now.

OR

3. Touch Not ready if you need more time before reviewing the

suggestion. You will then be prompted to enter the duration of time needed before you can review the suggestion.

- When reviewing the suggested edits, you will be presented with the ELD log view with the suggested changes highlighted in blue lines.
 - a. Touch Save to accept the suggested edits

OR

b. Touch Reject to keep your original logs

To review previously deferred suggestions:

- 1. Touch ELD on the screen
- 2. Touch ELD on the top tabs.
- 3. Touch Info on the bottom menu
- 4. Touch Deferred on the top tabs
- 5. Touch Un-defer proposed edits to review the suggestions



| ELD Suggested Edit Waatl 🗘 🧠 | | | | |
|---|----------------------------|---------------------------------------|---|---------|
| Bell, Shad Co-Driver: None | Truck: SW_NewUI | Shipping: 121 | 12 Mar 2021 Trailer: 34343 | [↑] |
| ბ↑ ლ რ. | | | | |
| 0:00 4:00 Å ³ Off Duty 11:5 ∰ Driving 0:00 | 8:00 8:00 Resting 1: | 12:00 16:00 00 Pers 0:43 – Yard | ntor torton for torton torton 0 20:00 24:0 : Convey — Original 1 Move — Modified | [↓] |
| Save | Reject | | Car | ncel |







Roadside Inspection Compliance

In the event of a roadside inspection, you may be required to display and/or transmit your ELD data to the inspection official. The inspector will choose one of several data sharing methods for you to invoke. To share data with the inspector:

- 1. Touch ELD on the screen
- 2. Touch ELD on the top tabs.
- 3. Touch Inspect on the bottom menu
- 4. You will see a series of data transmit methods available for selection by touching the method.
 - a. FMCSA secure webservice you will be prompted to enter an output file comment that the inspections officer will provide you, then touch Send. You will then get a confirmation screen once the transmission is complete.
 - b. FMCSA secure email you will be prompted to enter an output file comment that the inspections officer will provide you, then touch Send. You will then get a confirmation screen once the transmission is complete.
 - c. Print If your company relies on the printer as the 'back up' method for making logs viewable outside the cab, choose this option.
 - i. Follow the instructions that came with your printer to connect to the LV9000 (plug the USB data cable into the right side of the LV9000 and plug the power cable into the auxiliary power receptacle).
 - ii. You have the options of selecting which days to include by touching the checkbox. ☑ will include the day, ⊠ will exclude the day.
 - iii. You will have the option to touch Mini for a 'mini' log that is an hours of service summary for your current and previous 7 days of hours of service history or Full for a full log detail that will print all required data. Your inspector will tell you whether the summary log (preferred) is acceptable, or if they require the detailed report.
 - d. On Screen Lets the officer view the logs on the LV9000 using the same navigation tools the driver would (left/right/up/down arrows, touching for more detail, etc.). It also includes a shortcut button for viewing unidentified driver logs by touching Unidentif.
 - e. Remote Screen view Bluetooth PowerFleet offers an Android app ('LV Remote'). Down load the app on a mobile device and scan the QR code from this selection on the Inspect screen to view the ELD logs from the mobile device (if connected to the LV9000 via Bluetooth)
 - f. Unsecure email PDF Similar to the FMCSA secure email, this option transmits logs via email. You will be prompted to enter the destination email and then be provided confirmation when complete.
 - g. Unsecure fax PDF This option transmits logs via fax. You will be prompted to enter the fax number and then be provided confirmation when complete.

| ELD Driver Inspection | w antil 🗘 🖷 🖷 |
|------------------------------|---------------|
| | r. J |
| FMCSA secure webservice | [↑] |
| FMCSA secure email | |
| Print | |
| On Screen | |
| Remote Screen view Bluetooth | |
| Back | |



Split Sleeper Use

The split sleeper rules allow drivers to combine two Sleeper Berth events or Sleeper Berth and an Off Duty event within a period if the Sleeper Berth record is at least 7 hours. If the LV9000 finds compatible conditions, the driver will get the prompt asking if they want to combine the two records. Touch Yes to combine them or No to ignore the suggestion.

Split Sleeper Wall C & Andrew Steeper Split Sleeper Berth today which could qualify as part of a split sleeper. This period will not count towards your duty hours if you complete the split sleeper. Do you want your hours remainging to be shown assuming that you will complete the split sleeper? If you say yes and do not complete the split sleeper you may end up in violation.

Drive: 10:59 Duty: 12:12 Break: 7:59

15:21:41

Rec Acc

Motion Lock Enabled

Motion lock screen

As soon as the vehicle begins moving, the LV9000 screen will show the Motion Lock screen. This screen shows the active driver with their time in current duty status in green in the upper left corner. The drivers

Remaining:

Navigate

1972

available hours are also shown on the Motion Lock screen. As a single driver logged in, you will not be able to enter any information while the truck is in Motion Lock. When team driving is logged in, a codriver will be able to unlock the screen and enter data.

Touch Navigate to enter navigation mode.

Touch Rec Acc to report an accident while in motion.

Messages

The LV9000 provides a messaging interface for receiving messages from your carrier or sending messages of many types. For safety reasons, you may be notified of a new received message while driving but you will not be able to read or respond until you come to a stop. To interface with the messaging tool:

- 1. Touch Messages
- 2. For received messages, review the Inbox
 - a. Touch a message to see the details
 - b. Touch Read to read the content or Delete to remove the message
- 3. To send a new message, touch New on the bottom menu or New Message on the top menu
 - a. 'Text Message...' and 'Message to Customer...' allow you to type a new message
 - b. Other items in the list are pre-determined messages that can be sent. Items with an ellipses have additional options after selecting it.
 - c. Touch <mark>Send</mark> to send a message
- 4. The Outbox is a combination of messages sent and messages staged to be sent.
 - a. Sent message has a \checkmark on the envelop icon
 - b. Staged messages have a \circlearrowleft on the envelop icon





Associate shipment and/or trailer numbers

To add a shipment document number and/or trailer number outside of the Start Trip functionality:

- 1. Touch ELD on the screen
- 2. Touch ELD on the top tabs.
- 3. Touch Info on the bottom menu
- 4. Touch Assoc on the top tabs
- 5. Enter the number(s) desired and touch Save.



LV9000 Settings and Current Status

The LV9000 has several configurable settings for driver preferences. It also allows the driver and co-driver to check device status. All of this is accessed through the **Tools** menu.

Display settings

- 1. Touch Tools
- 2. The Display tab allows the following settings changes:

Display brightness: Use the left arrow to reduce brightness, the right arrow to increase brightness

Language: Switch between English and Spanish language display

Keyboard: Change the keyboard display between QUERTY, AZERTY, or QWERTZ

Record Accident: Touch this button to record an accident has happened.

Volume control

- 1. Touch Tools
- 2. Touch the Settings Tab on the top
- 3. Touch the Volume + or Volume buttons

External Device Control

- 1. Touch Tools
- 2. Touch the Settings Tab on the top
- 3. Touch Turn Printer On to enable Bluetooth printer connection
- 4. Touch Turn Scanner On to enable Bluetooth printer connection



View Current Device Status

- 1. Touch Tools
- 2. Touch the Status Tab on the top

Modem State: identifies if the cellular modem is connected or not.

GPS: provide triangulation status.

Ignition: Shows if LV9000 is sensing engine on or not.

Serial No.: of the LV9000.

Time: Current time on the LV9000

Build: Date the current software version was released

Ver: Software version on the LV90000.

3. Touch the Details Tab on the top

Activity: Current RODS selected for the driver

Latitude and Longitude currently triangulated

- Date and Time
- Driver name
- LV9000 name

Message counts

| Display Status | Details Set | tings Media | | w 🖬 🗘 🍝 |
|-------------------------------|-------------|-------------|---------|------------|
| Modem State: Online | GPS: | Ignition | | erial No.: |
| Time: Mon Mar 15 23:11: | 01 2021 | | | |
| Build: Tue Mar 16 01:51:1 | 2 2021 | | | |
| Ver: 4.35.9.50-17227 | SIM Qube | | | |
| Touch | Sta | atus | Details | Exit |



Sensors

The LV9000 has any sensors it can interact with for additional monitoring of the vehicle. Touch the sensors button on the main menu to see the sensors connected and information regarding their configuration.

Sensors tab - Contains details on connected sensors

CANbus tab – Contains the current state of the most commonly reviewed vehicle status inputs from the vehicle connection

CAN2 tab - Contains the current state of additional vehicle status inputs from the vehicle connection

Jobs

The LV9000 allow for transportation management system workflow integrations. When integrated, the Jobs button on the main menu screen allows drivers to view, select, update, and complete jobs from the integrated systems.



Malfunctions and Diagnostics

ELD devices are required to log and notify the user when there is a compliance malfunction or a data diagnostic function. On the LV9000 if a malfunction is present, a red triangle with an 'M' in

the middle will display in the upper right corner of the screen. If a data diagnostic error occurs, an orange triangle with a 'D' in the middle will be visible. To view details about the issue:

- 1. Touch ELD on the screen
- 2. Touch ELD on the top tabs.
- 3. Touch Info on the bottom menu
- 4. You will see the information on the ELD tab



Malfunction definitions

| Code | Malfunction | Cause | Resolution |
|------|----------------------------------|--|--|
| E | Engine Sync Malfunction | Missing data from the ECU for at least 30 minutes over a 24- hour period. | Check connection to the Canbus (ECU) Check that the LV9000 is always powered before driving. Contact carrier; revert to paper logs. |
| L | Position Sync Malfunction | The vehicle has been driven for too long without a GPS fix. | Check the GPS antenna (malfunction should clear once a fix is obtained). Contact carrier; revert to paper logs. |
| 0 | Other ELD Malfunction | Generic malfunction | • Contact carrier; revert to paper logs. |
| Ρ | Power Malfunction | The events in a 24-hour period. Vehicle has been driven for 30 minutes without creating driving records. | Check connection to the Canbus (ECU) Check that the LV9000 is always powered before driving Contact carrier; revert to paper logs. |
| R | Data Recording Malfunction | The LV9000 cannot record anymore ELD events | Internal fault has occurred in the LV9000. Return the device for service. Contact carrier; revert to paper logs. |
| S | Data Transfer Malfunction | The LV9000 has failed to contact the FMCSA too many times to test the remote inspection connection. | Check the connection to the internet. If you cannot get a fix, Contact carrier; revert to paper logs. |
| Т | Timing Sync Malfunction | Failed to sync the clock with either the server, or GPS for too long, and it is possible that the clock may not be correct. | Check the connection to the internet and GPS antenna (malfunction should clear once a valid fix is obtained). If you cannot get a fix, Contact carrier; revert to paper logs. |



Diagnostic definitions

| Code | Diagnostic | Cause | Resolution | | |
|------|-------------------------------|--|---|--|--|
| 1 | Power Event | The LV9000 has detected that it has been driven without creating events. | Check connection to the Canbus (ECU) Check that the LV9000 is always powered before driving. | | |
| 2 | Engine Sync Event | The LV9000 has detected that it is not receiving the required data from the vehicle ECU. | Check connection to the Canbus (ECU) Check that the LV9000 is always powered before driving. | | |
| 3 | Missing Data Event | The LV9000 is missing required data for one or more events. | Check connection to the GPS antenna. Edit the events and add the missing data. | | |
| 4 | Data Transfer Event | The LV9000 has failed to contact the FMCSA to test the remote roadside inspection connection. | • Check the connection to the internet. | | |
| 5 | Unidentified Driving Event | The LV9000 has recorded driving when no driver was logged in. | Always login before driving. Assume the unidentified driving time if you are responsible for it when prompted after login. | | |
| 6 | Other | Generic diagnostic | • Contact carrier; revert to paper logs. | | |

Specifications

| Dimensions: | 118mm x 220mm x 28mm |
|------------------------|--|
| Weight: | 1.5kg |
| Display: | 7" TFT |
| Cellular: | LTE w/3G Fall back (HSPA+) |
| Glonass/GPS: | SiRF5, 66 channel, -163dBm sensitivity |
| 0S: | Android 7.1.2 |
| CPU: | Qualcomm MSM8909 A7 Quad Code 1.0GHz |
| Memory: | 1GB LDP DDR3 (Memory) |
| | 8GB eMMC (Flash Storage) |
| Connectivity: | RS232 Serial (6), USB 2.0 (2), Bluetooth LE, 802.11n |
| Power: | 12V (Max 28V) 350mA input voltage |
| Operating Temperature: | -20°C to +75°C |
| Humidity: | 5% - 90% RH |
| Environmental: | IP67 rated |



CarrierMate[™] CM9000 Electronic Logging Device (ELD) Hours of Service (HOS) User guide



TABLE OF CONTENTS

Section

Page

| CarrierWeb System Overview | 3 |
|--|----|
| Logging in to the MDT | 3 |
| The Main Menu Screen | 11 |
| The ELD Button and Reviewing ELD functions | 11 |
| Inspect and data transfer | 20 |
| The ELD Info button | 26 |
| Editing your log | 29 |
| Using the grid to edit your log | 34 |
| Accepting manager proposed edits | 38 |
| Other hours of service information: | 39 |
| Logging out of the MDT | 40 |
| Special Driving Conditions | 43 |
| Assuming 'unidentified Records' | 45 |
| Team Driver Operations | 48 |
| ELD Malfunctions and Data Diagnostics errors | 53 |

CarrierWeb ELD System Overview

The CarrierWeb® CarrierMate[™] ELD system consists of a Mobile Data Terminal (MDT) in the vehicle that communicates via cellular communication to an internet based fleet management system. The MDT serves both as a tool to maximize fleet operational efficiencies by linking the driver and truck with back office transportation and fleet management systems as well as an Electronic Logging Device (ELD) that meets Federal ELD Mandate requirements. This user manual is designed to guide drivers in the use of the CarrierMate[™] ELD system in order to automate their Hours of Service (HOS) driver logs as required under the mandate.



Logging in to the MDT

When you begin your day on the MDT, you will be presented with the green 'Login' screen that includes the login and password entry fields. This green login screen lets you know that no other driver is currently logged into this unit. Reminder: A supply of blank driver's records of duty status graph-grids sufficient to record the driver's duty status and other related information for the duration of the current trip is required to be in the vehicle at all times.



To log in, touch 'Press Here' next to Login ID (above) and enter the user-name provided to you by your fleet manager. Press 'OK' to complete login ID entry.



Next touch 'Press Here' next to the 'Password' and enter the password provided by your fleet manager.



Note that passwords are case sensitive. If your password includes lower case letters, click the 'case toggle' button to change to lowercase. For security purposes, only the current letter entered of your password will show on the screen, with previously entered letters/numbers showing as stars. Press 'OK' to complete your entry.



Once the login and password fields are filled in, press the 'Login' button at the bottom of the screen.



You will now be presented with the CarrierWeb Hours check screen. This is an opportunity for you to review your remaining hours information stored on CarrierWeb.com and to confirm that you have hours available to begin your shift. Information shown is:

- 1. Driver identification
- 2. Current activity status and time in that status
- 3. Driving and On Duty available hours
- ELD Special driving conditions available for use. PC = Personal Conveyance. YM = Yardmoves.



Note that if you do not receive your available hours information, it may mean that your unit cannot communicate with the CarrierWeb website. View the communications signal strength indicator at the top of the login screen, if it is red, that means your unit is not in communication (See image below). Move the vehicle to see if you can to get better reception. If your unit is unable to communicate, you will not be able to log in. Contact your manager for further instructions.



Once you've reviewed your available hours, click the 'Login' button in the lower left hand corner of the screen. The MDT will begin to download your ELD log history. The 'Downloading' counter indicates progress.



Once all of your ELD history is downloaded, you will be able to press 'continue' to continue the login process.



You'll now be prompted to choose your new Hours of Service category from the choice list below. These are the FMCSA approved categories and are not editable.



Note that special driving conditions Yard Moves and Personal Conveyance can only be entered into from approved categories - Yard Moves will only be available when you are in the On Duty category. Personal Conveyance will only be available when you are in the Off Duty category.

When you make your choice, the MDT will display a screen that allows you to review the Hours of Service category you are entering, and to confirm that your location is correct. Press 'ok' to proceed. If this is not the category you want, then you can hit the 'Back' button and enter a different choice.



If your company is capturing additional activity detail within the Hours of Service category, you will next be presented with a list of activity options that are available within the chosen category. This list IS customizable by customer.

| New Status | DRIVER: | ELDJ | (ELD | Testing) | , | |
|-------------|----------|------|------|----------|----------|-----|
| Start New 1 | Trip | | | | | |
| Pretrip | 1000 | | | | | |
| Preparing | to drive | | | | | |
| Loading | | | | | | |
| Unloading | | | | N / ABL. | | - |
| Back | | | | V CAN: | IGN - | UFF |

If you have uncertified logs from previous days, they will now be displayed to you for your review. You must certify each day that is presented. You will see the hours of service grid at the top of the page.

| ELD Certification | | | |
|--|---|-------|---|
| Driver: Hogan, Co-Driver: Truck: KOBrie | Jake 12-Dec n_5700 Shipping: 8L0123 Trailer: 321 | | |
| Ø | | | |
| E C | | | |
| | | mini | |
| 0:00 4:00 8:00 | 12:00 16:00 20:00 | 24:00 | |
| Off Duty 11:49 | Resting 0:00 | PC | |
| Driving 0:03 | 🖂 Working 12:08 | YM | - |
| | | 1 | |
| Accept Not re | ady Edit | | |

You can use the up and down arrows at the right to view each activity throughout the day. If you are ready to certify your logs, choose the 'Accept' button.



You will now be prompted to agree with the required FMCSA certification statement. Choosing 'Agree' will certify your log. If not ready, you can choose back to review or edit the day. See 'Editing your log' for more information. If there are additional days requiring certification, they will display on the screen. Continue the process until log days have been certified.



If you are not ready to certify a log, choose the 'Not ready' button. A timer screen will display allowing you to enter a delay time in minutes and hours. Once the delay time has been reached, the log will be presented on screen again for certification when in an On Duty Not Driving status. You can override this delay if you are ready to certify your log by using the 'un-defer' option. See page 28 for instructions.



The Main Menu Screen

Once you have fully completed the login process, you will be at the main menu. From here, you can send and receive messages, access navigation, view canbus and ECM/Trip information, MDT tools, Integrated jobs dispatch information and Hours of service.



The ELD Button and Reviewing HOS functions

The ELD button is where you will update your duty status,

review your hours of service information, make any required edits and transfer required Hours of Service information to roadside inspection authorities.



Touch the green ELD button to call up the ELD menu. You will see three tabs across the top of the screen - Hours, Remaining and ELD. Touching each will display additional information and functionality.

The default tab highlighted when pressing the ELD button is 'Hours'. This tab displays your hours of service duty status changes. It will include status detail descriptions that are specific to your company, such as 'washing' or 'waiting'. The ELD category is automatically associated with these statuses and is seen under the 'ELD' tab.

Pressing the green arrows to the right and left of the Date/Driver name line will change the day viewed. At the bottom of this screen, see the following buttons:

- Change: Use this button to change your duty status.
- Drivers: Use this button to view, switch and logout drivers logged into the MDT
- *Start:* Use this button to begin your trip if your company does not integrate with a Transportation Management System (TMS)
- Back: Brings you back to main menu

| Hours Remai | ning ELD | | |
|---|--|-----------|------|
| < Mon De | ec 11 JAKE (3 | Jake ELD) | > |
| 図 11:44 (※ 10:55 ¥ ※ 10:55 ¥ ◎ 10:55 ¥ ◎ 10:50 [※ 10:41 ¥ 回 00:00 (| ff Duty lorking lorking riving lorking lff Duty | | |
| Change | Drivers | Start | Back |

Change Button

Pressing the change button brings up the screen that allows you to choose the ELD category that you are entering. Choose the category by touching it.

| Change ELD Sta | tus | | |
|----------------|-----------|--------|--------|
| Off Duty | | | |
| Sleeper Berth | | | |
| Driving | | | |
| On Duty Not Dr | iving | | |
| Set Special Dr | iving Con | dition | |
| Back | | ~ | Logout |
A confirmation screen will pop up that confirms the category you are entering and it confirms the GPS determined location where the activity began.



If your MDT cannot determine its position via GPS at the time of your duty status change, you will be prompted to enter your location manually. Enter your location identifier by touching 'Press Here' below. The identifier you use must be a minimum of 5 characters.



After confirming the ELD category and location, you will next be prompted to choose an additional activity detail description within the Hours of Service category, if your company captures this detail.



Once chosen, the activity will show at the top of your status choice list in the hours tab.



Automated Drive

Note that it is never required to choose a driving status. The MDT is synchronized with the and will automatically place the vehicle in drive status as soon as the vehicle reaches 5 MPH.



Drivers button

Press the Drivers button from the bottom of the Hours tab to view current drivers on the MDT. If your company runs teams, you will see both the active and the inactive driver that are currently logged in to the unit (see more on team drivers in **Team Driving Operations**). When your shift is complete, pressing logout will begin the logout process. See **Logging out of the MDT** for instructions on logging out of the unit.



The CarrierMate[™] MDT can be configured to stand alone as an ELD device or be integrated with a Transportation Management System. If integrated with a TMS, then your trailer and shipping document numbers will be presented to you for confirmation as a part of your normal workflow and automatically affiliated with your ELD record. If your fleet does not use a TMS, you will use the 'Start' button to start a new trip and enter your trailer and shipping document numbers. Because the CarrierMate[™] is fixed to the truck, we automatically associate the vehicle identifier in your ELD record. This vehicle identifier is editable by you should there be a reason to update the vehicle identifier.

| Hours Remai | ning ELD | | |
|------------------------|--|-----------|------|
| Mon De | ec 18 JAKE (. | Jake ELD) | > |
| M 11:11 W | aiting aiting for st | tatus | |
| 11:00 W | aiting river 1 Login | | |
| □ 10:23 C ☆ 09:37 W | ff Duty orking | | |
| 00:00 C | ff Duty | | |
| | Received and the second se | | |
| Change | Drivers | Start | Back |

Press the Start button to begin a new trip. Touch 'Yes' to confirm that you would like to start a new trip. Touching 'No' will bring you back to the previous screen.

| Start Trip | | | |
|-------------|---------------|---------|--|
| Do you wish | to start a ne | w trip? | |
| | | | |
| | | | |
| | | 5-11 | |
| 2 | | 1 | |
| Yes | No | | |

Enter the shipping document number and trailer number for each line. Each time you start a new trip, once you enter the required information, you will be prompted to enter a new status from the On Duty category choice list as seen above.



The Remaining Tab

The Remaining tab shows your remaining hours available to you, as well as additional hours of service details. When you touch the remaining hours tab, you will see:

- Driver ID
- Drive and On Duty remaining hours and time to next required 30 minute break
- The date/time of your current work shift
- The miles distance travelled today

| Hours Remain | ning ELD | | |
|---|--|---|-----------|
| JAKE (Jake Drive: 0:00 24 Hour Sta Distance tr | ELD) Duty: 0:00 rt Time: 18 avelled tod | Detai Break: 0:00 .12 09:37 ay: 0.0 KM | <u>ls</u> |
| | | | |
| ÷ | · ·2· | - | Back |

Pressing the Details button in the screen above shows additional hours of service information including:

- The HOS regulation that is being followed
- Hours remaining based on the 7 / 8 day rule

- Total on duty hours in the last 7 / 8 days
- Total driving and total on duty time today



Choosing the planning tab from above shows how many hours will be available tomorrow and in two days.



The ELD Tab

The ELD Tab shows Hours of Service information required by the ELD mandate. At the top of the page is your hours of service grid. As we discussed in the Hours tab section, pressing the green arrow buttons will change the day viewed. Note that when you change the day in the ELD tab, it will match the day in the Hours tab, and vice versa. The ELD tab day and the Hours tab day are always synchronized.

The hours of service grid shows your ELD category changes graphically, as well as totals at the bottom of the screen for total time spent in each. Note that Personal Conveyance and Yard Moves will show as dotted lines and dashed lines respectively on the grid. Learn more in Special Operating Statuses.

| Hours Remain: | ing ELD |) | | | |
|---------------|---------|-------------|----------------------|-------|---|
| < Driver: H | logan, | Jake 18-Dec | C 3 Trailer: 7238 | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 0:00 4:00 | 8:00 | 12:00 16: | 00 20:00 | 24:00 | |
| Off Duty 16 |):36 | 🔄 Resting | 0:00 | PC | |
| Driving 0:1 | L4 | 🖄 Working | 4:07 | YM | - |
| 2 | | | | | |
| Inspect | Info | D E | dit | Back | |

Pressing the down arrow on the scroll bar will show each duty status category change for daily activities.



Touching an activity will show additional information associated with each record.

| Hours Remaining ELD | |
|---|--|
| cwEldSequenceNumber: 132_76283904 Status: Active Type: Change in duty-status Code: Status change: On-Duty not driving Origin: Edited or entered by driver Timestamp: 12 Dec 17 11:49 | |
| Accumulated Miles: 155 mi Elapsed Engine Hours: 13.4 hrs Location: YHTGF Distance Since Last Valid GPS: 0 mi | |
| - Back | |

At the bottom of the ELD tab screen are 4 buttons, they are:

- Inspect You'll press this button when transferring or displaying your logs to an inspector.
- Info this buttons provides additional information and ELD functionality
- Edit You will use this button should you need to edit your logs.
- Back the back button sends you back to the main menu.

Inspect and data transfer

The inspect button allows you to transfer or display logs to a roadside inspector.

| Hours Remain | ing ELI Hogan, |) Jake 12- | Dec | 144. 2020 | > | |
|--------------|-------------------|-------------------|------------|------------|-------|--|
| Co-Driver: | Truck: K_MDTS | 700_2 Shipping: : | 987623 Tra | iler: 7238 | | |
| | | | | | | |
| 0:00 4:00 | 8:00 | 12:00 1 | L6:00 | 20:00 | 24:00 | |
| Off Duty 1 | 1:49 | 🔄 🔁 Resti | ing 0: | 00 | PC | |
| ⊙ Driving 0: | 03 | 🖄 Worki | ing 12 | 2:08 | YM | |
| Inspect | Inf | 0 | Edit | | Back | |

When you press Inspect, you'll see the following options for data transfer.

- FMCSA secure webservice
- FMCSA secure email
- Print
- On Screen
- Insecure email PDF
- Insecure FAX PDF (after clicking the scroll down button)

| ELD Driver Inspection | |
|-------------------------|---|
| FMCSA secure webservice | |
| FMCSA secure email | |
| Print | |
| On Screen | |
| Insecure email PDF | - |
| Back | |

You will use the method of transfer designated by the inspector. Note that you'll only use the print option if your company is using that method to view logs outside the cab.

FMCSA secure webservice

To transfer log data via secure webservice, touch the option 'FMCSA secure webservice'. You will now be presented with the screen below requesting the 'output file comment'. The Roadside inspector will advise you what to enter here. Once you've entered the information as instructed, press 'send'.

| ELD Driver | Inspection | |
|---|--------------------------------------|--|
| Via FMCSA s Output File << Press He | secure webserv Comment: ere >> | |
| | | |
| Back | Send | |

After a moment, you will receive the status: 'Transfer to FMCSA complete' notification.

| ELD Driver Inspection | | |
|---|---|---|
| Via FMCSA secure webservice Status: Completed - OK Transfer to FMCSA complete | | |
| | (| |
| - 0К | | - |

FMCSA secure email

Use this option if instructed by the inspector. The screens are the same as FMCSA secure webservice.

<u>Print</u>

If your company relies on the printer as the 'back up' method for making logs viewable outside the cab, choose this option. Follow the instructions that came with your printer to connect to the MDT

(plug the USB data cable into the right side of the MDT and plug the power cable into the auxiliary power receptacle).

You will have the option of printing the 'mini' log that is an hours of service summary for your current and previous 7 days of hours of service history. You may also print the full log detail that will print all required data. Your inspector will tell you whether the summary log (preferred) is acceptable, or if they require the detailed report.



On Screen

If your company has installed your MDT so that it may be passed outside the vehicle for review by roadside officials, you may choose the 'On Screen' back up method of displaying your information. Choose 'ON Screen' from the display options.

To review on screen, follow the instructions below after choosing the On Screen option.



Use the green left and right arrows to select the day to be reviewed,

| ELD Driver Ins Driver: Ho Co-Driver: Th Click here | spectio gan, J ck: K_MOTS70 to sh | on ake 17-Dec 0_2 Shipping: 987623 1 ow full hea | railer: 7238 der | > | |
|---|---|---|----------------------------|-------------|---|
| | 8.00 | 12.00 16.00 | 20:00 | 24.00 | |
| Ø:00 4:00 ☐ Off Duty 3:4 ☐ Drivina 0:00 | 6 6) | Resting (| 0:00 20:14 | 24:00 PC | - |
| Back | Done | Unide | ntif | - | |

choose the down and up scroll arrows on the right side of the MDT to view category status changes.

| ELD Driver I | nspection | | | | |
|---------------|-------------|---------------------------------|------------|-------|---|
| Co-Driver: H | logan, Jake | • 17-Dec hipping: 987623 Tra | iler: 7238 | > | |
| Click her | e to show | full head | er | | |
| | | | | | |
| 0 | | | | | |
| 0:00 4:00 | 8:00 12: | 00 16:00 | 20:00 | 24:00 | |
| Off Duty 3: | 46 🔤 | Resting 0 | :00 | PC | - |
| 🖸 Drivina 0:6 | 00 🖂 | Workina 20 | 9:14 | YM | |
| Back | Done | Uniden | tif | | |

See HOS Category change for the day when scrolling down within a day.

| ELD Driver Inspection | | |
|--|-----------|---|
| 07:46 Log certification | | |
| 07:41 Log certification Origin: Driver | | |
| 07:36 ODND Pethan, NH 1.7mi WW 1156mi 61.4hre Origin: Driver | | |
| 07:30 Login 1156ni 61.4hrs Origin: J4KE | | - |
| Back Done | Unidentif | |

To see required header information, touch 'Click here to show full header'

| ELD Driver Ins | pection | |
|----------------|---|-------------|
| < Driver: Ho | gan, Jake 17-Dec ck: K_MOT5700_2 Shipping: 987623 Tr | ailer: 7238 |
| Click here | to show full head | ler |
| | 1 | |
| | - A. | |
| 0:00 4:00 | 8:00 12:00 16:00 | 20:00 24:00 |
| Off Duty 3:4 | 6 🔤 Resting 0 | :00 PC - |
| | × WORKING 2 | 0:14 M |
| Back | Done Unider | tif - |

Now required header information for the day chosen is displayed. Use the scroll arrows to view all data.



Within the inspection screen, there is the option to review unidentified driver logs for each day as well by pressing the 'Unidentif' button below.

Once all records have been reviewed, choose 'Done' to return to the ELD screen.

| ELD Driver | Inspection | | | |
|---|--|--------------------------------------|------|---|
| Click here t Record Date: Time Zone Of 24-hour Star | o hide full 17-Dec-201 fset from U ting Time: | header 7 TC: -5 0:00 | | |
| Carrier: 234 Driver Name: Driver ID: J Driver Licen | 568, ELD Te Hogan, Jak AKE se State: N | est Ce IH | | |
| Co-Driver: | | | 1 | - |
| Back | Done | Unide | ntif | |

In addition to primary and backup methods of logs transmission and review at the roadside, CarrierMate[™] also provides the option for insecure email and fax transmission of a human readable log for the inspector's convenience.

To send an email, choose that option from the inspection screen, click 'press here' below...



enter the email address the inspector gives you, and click 'send'



You'll be notified that the email was sent successfully. Click OK to return to the ELD tab.



The ELD Info button

| Hours Remaining | ELD | |
|------------------|---|--|
| Co-Driver: Hogar | , Jake 12-Dec MOT5700_2 Shipping: 987623 Trailer: 7238 | |
| Ø | | |
| | | |
| | | in the second se |
| 0:00 4:00 8:0 | 00 12:00 16:00 20:00 | 24:00 |
| Off Duty 11:49 | 🔄 Resting 0:00 | PC |
| 🖸 Driving 0:03 | 🛛 🗠 Working 12:08 | YM 🔻 |
| | | |
| Inspect I | nfo Edit | Back |

Choosing the Info button from the ELD tab displays the following additional tabs:

- ELD
- Driver
- Assoc
- Deferred
- Unidentif

ELD - Displays active malfunctions and data diagnostic faults. See the Malfunctions and Data Diagnostics faults section for more information on understanding these fault indicators.



The Driver tab shows the information about the driver including current duty status, available special categories, and any data diagnostic errors current for this driver.



The Assoc (Association) tab provides a method of adding in shipment document number and trailer number outside of the Start Trip functionality previously discussed. You may also edit these items as a part of the editing function. See the Editing Your Log section for more information.



The deferred tab allows you to 'un-defer' any proposed edits or certifications that you have delayed. Choosing either of these button will cause deferred proposed edits and certifications to display on the screen immediately. Learn more about Proposed edits in the Editing Your Log section.

| ELD Driver | Assoc Defer | <mark>ed</mark> Unidentifi | |
|------------|--------------|----------------------------|------|
| | | | |
| | | | |
| | | | |
| Un-defer | proposed edi | ts | |
| Un-defer | certificatio | n | |
| | | | |
| - | - | | Back |

The unidentifi button displays unidentified driving events that are stored on this MDT. Learn more about reviewing and accepting unidentified driving events in the section : Assuming 'unidentified Records'



Editing your log

The edit button in the ELD tab allows you to edit your non-driving duty statuses.

| Hours Remaini | .ng <mark>ELD</mark> | |
|---------------|---|---|
| Co-Oriver: H | ogan, Jake 12-Dec | |
| Ø | | |
| | | |
| | unterlected and a between terlected <u>instanding sets</u> alored | |
| 0:00 4:00 | 8:00 12:00 16:00 20:00 24:00 | |
| Oriving 0:0 | 3 🖸 Working 12:08 YM | - |
| | | |
| Inspect | Info Edit Bac | < |

Move to the day that you need to make changes on and click the edit button from within the ELD tab. You'll then see 'ELD Driver Edit' in blue letters at the top of the screen.

| ELD Driver Edit | | |
|---|---|------------|
| Driver: Hogan, Co-Driver: Truck: K_MDT57 | Jake 12-Dec 700_2 Shipping: 987623 Trailer: 7238 | |
| | | |
| | | |
| | | |
| 0:00 4:00 8:00 | 12:00 16:00 20:00 | 24:00 |
| Off Duty 11:49 | 🔄 Resting 0:00 | PC |
| 🖸 Driving 0:03 | 🛛 Working 12:08 | YM 💙 |
| | | - <u>1</u> |
| Save Cance | el - | |

Change a duty status

There are two ways to make edits to your recorded data. The first is to change a record from one status to another. For instance, let's say you chose the on duty status, when you in fact meant to go off duty. In this case, I want to change the On Duty status at 12:19 to 'off duty'. To change the activity itself, scroll down until you see the record that you want to change and click on it.

| ELD Driver Edit | | |
|---------------------------------------|----|---|
| Records: 12:19 0DND | | |
| 12:17 ODND TESTRF 15601 13.5hrs | | |
| 12:14 Driving 155ai 13.4hrs | | - |
| 13.12 0000 | | |
| Save Cancel | 12 | |

The detail that is associated with the record will now be displayed. The data in black is for reference and cannot be changed. The items in blue are driver editable data. I click on the Code: Status Change: On-Duty not driving to call up the change screen.



After clicking the status change line, I am presented with the four ELD categories that I can choose. Since I meant to go Off Duty - I choose that status on the list, and press OK.

| Off-Duty | | | |
|------------|-----------|---|----------------|
| Sleeper Be | rth | | |
| Driving | | | |
| On-Duty no | t driving | | |
| | | | |
| | | 5 | \overline{A} |
| ОК | Cancel | | |

The red color of the status change indicates that you have changed the original status. From here you can edit additional fields, apply the change, cancel out of the change or add additional info.



Add additional info



After applying the change, the record will appear red beneath your grid.



Scrolling up to the grid, you will see the original status in a faint light blue line, and the new status that will be saved as the dark blue line. The change is not recorded until you press the save button to complete the edit.

| ake 12-Dec | | |
|-------------------|---|---|
| | | |
| | | |
| | | |
| 12:00 16:00 20:00 | 24:00 | |
| 🔄 Resting 0:00 | PC | |
| 🛛 Working 0:28 👘 | YM | - |
| | | |
| | 121 | |
| | 2 Shipping: 987623 Trailer: 7238 12:00 16:00 20:00 ≧ Resting 0:00 ∑ Working 0:28 | 2 Shipping: 907623 Trailer: 7230 12:00 16:00 20:00 24:00 ≧ Resting 0:00 PC ≧ Working 0:28 YM |

When you press save, you will be prompted to enter a comment. This is a required field. Enter the reason for your change and press save.

| ELD Driver | Edit | | |
|---|-------------------------------|--------------|--------|
| Please ent characters << Press He | er the reason): ere >> | for the edit | (min 4 |
| | | | |
| Save | Cancel | - | - |

After saving your comment, you will immediately be prompted to certify your edited log that shows your change.

| ELD Certification | |
|--|-------|
| Driver: Hogan, Jake 12-Dec Co-Driver: Truck: K_MDT5700_2 Shipping: 987623 Trailer: 7238 | |
| | |
| | |
| | |
| 0:00 4:00 8:00 12:00 16:00 20:00 | 24:00 |
| Off Duty 23:29 Resting 0:00 | PC |
| 🖸 Driving 0:03 🛛 🖾 Working 0:28 | YM 💙 |
| | |
| Accept Not ready Edit | |

You'll also see that the system retains your original duty status information as required by the FMCSA.



Once ready, accept and agree to the certification statement. As we saw earlier in this manual, you can also defer certification until you are ready.



Using the grid to edit your log

The second way to edit your log is to use the grid controls. In this example, let's say I had actually come on duty at 8:05 AM on the 11th. To add that time in using the grid, I once again click on the Edit button for the day I want to edit..

| Hours Remain: | ing <mark>ELD</mark> |) | | | | |
|---------------|----------------------|---------|--------|------------|-------|---|
| Driver: H | logan, | Jake 11 | - Dec | úler: 7230 | > | |
| <u></u> | | | | | | |
| | | | | | | |
| | | | | | | |
| 0:00 4:00 | 8:00 | 12:00 | 16:00 | 20:00 | 24:00 | |
| Off Duty 22 | 2:56 | 🔄 Res | ting 0 | : 00 | PC | |
| 🖸 Driving 0:0 |)5 | 🛛 Worl | king 0 | : 59 | YM | - |
| | | | | | | |
| Inspect | Info | b | Edit | | Back | |

I again see that I am in the ELD Driver Edit screen. This time however, I'll use the grid. To do so - I touch anywhere on the screen to activate screen edits.

| ELD Driver Edit | | |
|--|---|-------|
| Driver: Hogan, CO-Driver: Truck: K_MDT5 | Jake 11-Dec 700_2 Shipping: 987623 Trailer: 7238 | |
| | | |
| | | |
| | | round |
| 0:00 4:00 8:00 | 12:00 16:00 20:00 | 24:00 |
| Off Duty 22:56 | 🔄 Resting 0:00 | PC |
| Oriving 0:05 | 🛛 Working 0:59 | YM 🗨 |
| Save Cance | 2] | |

I now see the instructions at the bottom of the screen that tell me to touch the graph on the category line near the time that I want to edit. Since I want to go on duty at 8:05 AM , I touch the graph on the imaginary on duty line that runs horizontally on the screen at about the 8 AM mark. I'll adjust this time next.



When I touch the grid in my target area, I see a dark red line that appears on the on duty line from 0800 to 0900. This red line is that status that I will apply when I hit the 'apply' button. See that the line is a light pink at the top of the edit window, showing what my current status is.

I can now adjust the edit time using the time controls. The duty status labels above the 'From' and 'To' times help show me where I am at on the grid. When an arrow points left and right on either side of the status description, that indicates that the control is within a status. So <off duty> means that the control is in the middle of the Off Duty period.



Since I was on duty up until my first On Duty status, I use the right arrow control, directly above the To: label to move my on duty period to abutt my first on duty. I know that I have moved my edit status to the beginning of my on duty event because the status label above the to control shows an ODND>, the arrow to the right of the label and none on the left indicates I am at the beginning of the next on duty status that begins at 10:41.



I can then use the small triangle above the from time minute to change the from time to 08:05.



I click the 'Apply' button, and once again see the light blue line indicating my original status, and the dark blue line indicating the change that I have applied. I click 'Save' to make the change to my Hours of Service record.

| ELD Driver Edit | | |
|--|---|--------|
| Driver: Hogan, . Co-Driver: Truck: K. MDTS7 | Jake 11-Dec 700 2 Shipping: 987623 Trailer: 7238 | |
| | | |
| A | | |
| | | |
| 0:00 4:00 8:00 | 12:00 16:00 20:00 | 24:00 |
| 🛛 Off Duty 20:20 | 🔄 Resting 0:00 | PC |
| 🖸 Driving 0:05 | 🖾 Working 3:35 | YM 📃 🤝 |
| | <u>_</u> | |
| Save Cance | əl - | |



I accept my certification

| ELD Certification | |
|--|--|
| Driver: Hogan, Jake 11-Dec Co-Driver: Truck: K_MOT5700_2 Shipping: 987823 Trailer: 7238 | |
| | |
| | |
| | |
| 0:00 4:00 8:00 12:00 16:00 20:00 24:00 | |
| Off Duty 20:20 Resting 0:00 PC | |
| 🖸 Driving 0:05 🛛 🖾 Working 3:35 YM | |
| | |
| Accept Not ready Edit - | |

And agree to the required certification statement



Accepting manager proposed edits

There is also one more way that edits can be made to your log. However, this time, the edit has come from a manager, likely at your request.

When a manager makes an edit to your log on the website, you will receive the message that an edit has been made for you. You will see this message during your next on duty not driving activity following the edit.

If not ready to view the edits, you can choose 'Not ready' and defer accepting the edits in the same way that we have already seen for log certifications. If you are ready to view the suggested edits, go ahead and choose 'Yes'.



You'll now be presented with the suggested edits made by management. The light blue lines show the original status and the dark blue lines show what will be saved to your record if you accept the changes. You may either save or reject the changes.

| ELD Suggested Edit | | |
|--|----|--|
| Driver: Hogan, Jake 13-Dec Co-Driver: Truck: K_MDT5700_2 Shipping: 987623 Trailer: 7238 | | |
| | | |
| | | |
| ☐ Off Duty 11:30 | PC | |
| O Driving 10:30 ⊠ Working 2:00 | YM | |
| Save Reject - | | |

Either choice will require you to enter a reason. We will save this change, enter the edit reason and choose save. Once again, we will immediately be prompted to certify the new record.



Other hours of service information:

Remaining hours warnings

Management can enable hours of service alerts that will display on your MDT when you are approaching out of hours situations. The alerts can be setup to provide a first warning an hour before running out of Drive, On duty or time to next 30 minute break. A reminder period can also be set to again warn of impending out of hours at multiple intervals in the time between the initial warning and pending violation.



As soon as the wheels begin turning on your vehicle, the MDT screen will show the Motion Lock screen. This screen shows the active driver in the upper left hand corner of the screen along with their time in current duty status in green. The drivers available hours are also shown on the Motion Lock screen.

As a single driver logged in, you will not be able to enter any information while the truck is in Motion Lock. When a team is logged in, a codriver will be able to unlock the screen and enter data. Learn more about team drivers in Team Driver Operations.



Logging out of the MDT

To log out of the MDT, choose 'Drivers' from the Hours tab

| Hours Remai | ning ELD | | |
|--|--|-----------|------|
| < Tue De | ec 12 JAKE (. | Jake ELD) | > |
| □ 12:19 0 12:17 W ○ 12:14 D 12:13 W 11:49 W ○ 00:00 0 | ff Duty orking riving orking orking ff Duty | | |
| | 1 | | |
| Change | Drivers | Start | Back |

Then choose 'Logout'



Next, review any existing malfunctions, and other driver related information and choose Yes teo continue to logout. If you do not wish to logout, choose 'Cancel'.



Next, choose the ELD status you want to remain in once you leave the vehicle. If going off duty - then choose that status from the list.



You'll then be asked to confirm that you are logging out and to remain in the status you have chosen. Confirm the location and clicking 'OK'

| Logout | | | |
|--|---|-------------|-------|
| Confirm lo Jake ELD | gout to: : Off Duty. | | |
| At: 22:59 Location: location (PELHAM, NH | For: Jake Hogan Invalid GPS fix min 5 character | (, please (| enter |
| 0К | Back | | |

When you are returned to the green login, you know that you have successfully exited the vehicle.

| Login | | | |
|-----------|----------|---------|-------|
| Login ID: | << Press | Here >> | |
| Password: | << Press | Here >> | |
| | | | |
| | | | |
| | | | |
| Login | | | Diags |

Special Driving Conditions

If required for your operation, management can assign the special driving condition categories yard moves and/ or personal conveyance to your driver ID. You will see the special driving categories allowed under your id at login. You'll also see allowed special category status under the driver tab in ELD info.



To choose the special driving category 'Yard Moves' you must first be in an 'On Duty' status. To choose Personal Conveyance, you must first be in an 'Off Duty' status.

In the below, the driver is in an on duty status, he chooses the ELD button from the main menu, clicks 'change' at the bottom of the screen in the Hours tab, and clicks 'Set Special Driving Condition' from the ELD status choice list.

| Change ELD S | tatus | | | |
|--------------|---------|-----------|---|--------|
| Off Duty | | | | |
| Sleeper Ber | th | | | |
| Driving | | | | |
| On Duty Not | Driving | | | |
| Set Special | Driving | Condition | + | |
| Back | | | | Logout |

The driver then chooses the special driving category 'Yard Move'.



He is prompted for a reason, and presses 'OK' to enter the status.



Once in Yard Moves, the driver will remain in that status until he either keys the ignition off and back on, changes duty status or he ends the status. To end the status, he chooses the green ELD Button from the main menu, chooses 'Change' from the ELD tab, chooses 'Set Special Driving Condition' and then chooses End PC/YM from the list. This will end the special driving condition.

You can enter Personal Conveyance in the same manner as described here for Yard Moves. Remember however that you must first be in an 'Off Duty' status to be able to choose Personal Conveyance.

It is also important to understand that you must end yard move and personal conveyance special driving conditions when you are finished using them. Your truck will not automatically go into drive status until these statuses have been ended.



Assuming 'unidentified Records'

If the vehicle is driven without a valid driver logged in, the driving detail is associated with the 'Unnassigned' driver.

If driving in a vehicle when not logged in, the driver will see a visual warning on screen as well as an audible alert, letting them know that a driver is not logged in to the system. Anyone who moves a vehicle and exceeds the ELD mandated drive initiation speed of 5 MPH will generate unassigned driving records, including yard personnel, mechanics, and drivers who forget to log in.



The ELD mandate requires that drivers logging in to the system be given an opportunity to accept generated unassigned driving into their HOS records.

The next driver logging in to the MDT will be presented with the notification below that there are new unidentified driving records on the MDT. He clicks 'Next' to see the records.



All new unidentified driving records will be presented to the driver on this screen. If there are multiple instances, each event will be listed. Each driver who logs in to the MDT will be asked if they want to accept the record(s). A driver will only be asked once for a specific event. After they have rejected it, they will not be asked if they want to accept it again. In this screen, the driver can click on an event to accept it - or he can Reject All on the screen.



To accept the unassigned event, he Clicks on the instance, and is presented with the Accept or Reject screen. Again - if he rejects the record, he will not be asked about it the next time he logs in to the unit. However, in this case, he did forget to log in and will accept the record, and chooses 'Accept' from the screen below.



After clicking 'Accept' he sees the driving event as an edit to his record, and he chooses 'accept'.



If there are no additional unassigned records, or if driver has rejected any other records associated with the MDT, then he will press done. The driver may be prompted to certify his ELD record if assuming a status for a previous day.

| U | nidentified | ł | | |
|---|-------------|------------|-----------|------|
| Ň | lo unidenti | fied drivi | ng found. | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | 1. |
| | Back | | RejectAll | Done |

Team Driver Operations

If your company runs teams, then your MDT's will be set up to accept a co driver. When a team logs in to the MDT, the driver who will be driving first, or the 'Active' driver, will log in to the mdt, followed by the co-driver.

The first or 'Active' driver enters his username and password in o the unit and confirms he has hours available to begin. He then presses the 'Login' button.



After successfully downloading his HOS log data to the MDT and pressing continue, The active driver chooses his ELD category of On Duty Not Driving.


He confirms his chosen status and location be clicking 'ok'



The active driver then certifies any outstanding logs

| ELD Certification | | | |
|-------------------|--------------------------------------|-------|---|
| Driver: Joe, EL | D 17-Dec 700 2 Shipping: Trailer: | | |
| | | | |
| | | | |
| | | | - |
| 0:00 4:00 8:00 | 12:00 16:00 20:00 | 24:00 | |
| Off Duty 16:35 | 🔄 Resting 0:00 | PC | |
| 🖸 Driving 0:00 | 🖾 Working 7:26 | YM | - |
| | | | |
| Accept Not re | ady Edit | | |

After the first/active driver certifies all outstanding logs, the system now asks if there is a codriver.

| Two drivers? | | | |
|--------------|-----------|-------------|---|
| Active Driv | | LD Testing) | |
| Is there a | codriver? | | |
| | | | |
| | | | |
| Yes | No | - | - |

He presses 'Yes' to confirm there is, and now the co-driver enters his information just as the active driver has.



The second driver confirms he has hours available, and chooses the 'login' button.



After the codriver successfully receives his log history to the MDT, he then is prompted to choose his duty status



The active driver is then prompted to enter his on duty status - and the team completes their login.



The main menu now displays the active driver on the upper left hand side of the screen, his user name in white. The co-driver is on the upper right hand side of the screen in gray.



Pressing the green hours button now shows CoHRS and CoELD tabs. These tabs have the same functionality as active drivers Hours and ELD tab reviewed previously in this manual.

| Hours Rema | nining E | LD CoHRS | CoELD | | |
|------------|----------|----------|--------|------|-------|
| < Tue | Dec 19 | ELDJ (EI | D Test | ing) | > |
| 01:20 | Pretrip | | | | |
| 🖄 01:16 | Pretrip | | | | |
| 01:11 | Other | | | | |
| | Driver | 2 Login | | | |
| | Driver | 1 Login | | | |
| | UTT DUC | | | | |
| | | | | | |
| | - | | | | 2. 11 |
| Change | Driv | /ers | Start | | Back |

The remaining tab now shows remaining hours for both team drivers. Choosing details tab produces the same functionality as reviewed earlier in this manual.

| Hours Remai | ning ELD CoHF | RS CoELD | |
|----------------------------|-------------------------------|---------------------------|------|
| ELDJ (ELD 1 | esting) | Detail | s |
| Drive: 11:0 24 Hour Sta | 0 Duty: 13:3 art Time: 19. | 2 Break: 7:32 12 01:01 | 2 |
| Distance ti | avelled toda | y: 0.0 KM | |
| Drive: 11:6 | Free or Die) 0 Duty: 14:0 | Detail 0 Break: 8:00 | |
| 24 Hour Sta Distance tr | art Time: Res avelled toda | et Achieved y: 0.0 KM | |
| | | | Pack |

To switch drivers, choose the Drivers button from the Hours or CoHRS tab.



Choose 'switch' to swap drivers



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Once switched, the new active driver will be prompted for his status, and the new codriver will be prompted for his status doing so as we've previously seen in this manual.

Choosing 'Logout' from the Drivers screen when there is a team will log both drivers out of the unit.

ELD Malfunctions and Data Diagnostics errors

ELD devices are required to log, and notify the user when there is an MDT compliance malfunction or a Data Diagnostic function indicating a driver data issue. If an ELD malfunction is present, a red triangle with an 'M' in the middle will display in the upper right corner of the MDT. If a data diagnostic error occurs, an orange triangle with a 'D' in the middle will be visible





| Code | Malfunction | Reason | Solution |
|------|----------------------------|--|---|
| Ρ | Power Malfunction | The events in a 24 hour period. MDT has detected that it has been driven for 30 minutes without creating driving records. | Check the connection to the Canbus (ECU), and check that the MDT is always powered before driving. Contact your carrier and revert to paper logs. |
| E | Engine Sync Malfunction | The MDT has detected that it has missed data from the ECU for at least 30 minutes over a 24 hour period. | Check the connection to the Canbus (ECU), and check that the MDT is always powered before driving. Contact your carrier and revert to paper logs. |
| т | Timing Sync Malfunction | The MDT has failed to sync the clock with either the server, or GPS for too long, and it is possible that the clock may not be correct. | Check the connection to the internet and GPS antenna - the malfunction should clear once a valid Fix is obtained. Contact your carrier and revert to paper logs. |
| L | Position Sync Malfunction | The MDT has been driven for too long without a GPS Fix. | Check the GPS antenna - the malfunction should clear once a valid Fix is obtained. Contact your carrier and revert to paper logs. |
| R | Data Recording Malfunction | The MDT can not record any more ELD Events. | An internal fault has occurred in the MDT which will need to be serviced. Contact your carrier and revert to paper logs. |
| S | Data Transfer Malfunction | The MDT has failed to contact the FMCSA too many times to test the remote roadside inspection connection. | Check the connection to the internet. Contact your carrier and revert to paper logs. |
| 0 | Other ELD Malfunction | An 'Other ' malfunction occurred. | Contact your carrier and revert to paper logs. |



| Code | Data Diagnostic | Reason | Solution |
|------|----------------------------|--|--|
| 1 | Power Event | The MDT has detected that it has been driven without creating events. | Check the connection to the Canbus (ECU), and check that the MDT is always powered before driving. |
| 2 | Engine Sync Event | The MDT has detected that it is not receiving the required data from the vehicle ECU. | Check the connection to the Canbus (ECU), and check that the MDT is always powered before driving. |
| 3 | Missing Data Event | The MDT is missing required data for one or more events. | Check the connection to the GPS antenna, or edit the events and add the missing data. |
| 4 | Data Transfer Event | The MDT has failed to contact the FMCSA to test the remote roadside inspection connection. | Check the connection to the internet. |
| 5 | Unidentified Driving Event | The MDT has recorded driving when no driver was logged in. | Always login before driving. You should also assuming the unidentified driving time if you are responsible for it when prompted after login. |
| 6 | Other | An 'other' diagnostic event has occurred. | Notify carrier. |