

OnLane™

Lane Departure Warning

Frequently Asked Questions

What is OnLane?

OnLane is a OnLane™ Lane Departure Warning (LDW) System with SafeTraK technology by Takata is a camera-based warning system that helps your driver avoid unintentional lane drifting.

How does OnLane work?

The system utilizes a camera mounted near the top center of the vehicle windshield to monitor and calculate the vehicle's position within the lane. When OnLane detects the vehicle crossing lane markings without the turn signal being activated, the system sounds an audible warning. This alerts the driver to take corrective action to prevent potential collisions or run-off-road accidents.

What are the benefits of using OnLane?

OnLane is a powerful tool that helps drivers quickly realize lane drifting and encourages the use of turn signals. OnLane can also help fleets improve their safety and reduce vehicle downtime and repair while improving the fleet's CSA compliance.

What is the Driver Alertness Warning (DAW)?

OnLane Driver Alertness Warning feature computes an Alertness Index based on driving performance and alerts the driver when it falls below a certain threshold over a period of time. DAW warns the driver by providing a distinct audible warning tone when it detects erratic driving behavior related to distracted or drowsy driving within a lane. The alert will stop when the driving performance has improved or when the key is cycled.

How does the OnLane video capture work?

OnLane's video capturing feature records and stores video footage when a critical event triggers your vehicle's safety systems. OnLane will capture video when your vehicle's ABS, stability control system or forward collision warning system are activated beyond a certain threshold. The system records ten seconds before a critical event is triggered and five seconds after. It also stores up to twenty video clips which can be downloaded via Meritor WABCO's TOOLBOX™ and viewed directly on your computer screen.

Can I disable the system?

The system warnings may be temporarily disabled by pressing the OnLane switch. This disables warnings for approximately 10-15 minutes, depending on OEM settings. Warnings can be enabled again by pressing the OnLane switch again. Disabling the system does not disable the video capturing function.

What do the various light indicators mean?

Depending on your vehicle manufacturer, the placement and appearance of the light indicators may vary. Please refer to your OEM Operator Manual for more information.

For vehicles equipped with a standard OnLane switch (shown below), the following applies:



Ready to Assist
GREEN ON/AMBER OFF



Not Ready to Assist
GREEN ON/AMBER ON



System Off/Power Off
GREEN OFF/AMBER OFF



Fault Condition
GREEN OFF/AMBER ON
(Refer to Flashing Code Operation)

How does the system distinguish between intentional and unintentional lane changes?

The system identifies intentional lane changes by detecting the use of turn signals, brake switch and vehicle speed. The following conditions will disable/enable certain warnings:

- If brake lights are ON, all warnings are disabled
- If Left Turn Signal is ON, left departure warnings are disabled
- If Right Turn Signal is ON, right departure warnings are disabled
- If the vehicle's speed is under 42 mph, all warnings are disabled
- If Hazard Warning Lights are ON, all warnings are enabled

Will the system work in severe weather conditions?

As long as lane markings are visible by the OnLane camera, the system will operate as normal. The following conditions may impact system performance and may require additional vigilance by the driver:

- Dirty or damaged windshield
- Poor lighting conditions caused by inoperable headlamp(s) or severe road glare
- Poor weather conditions such as snow, ice, heavy fog or heavy rain
- Poor pavement conditions such as broken road surface, ice, snow, sand, dirt or gravel covering the road surface
- Missing, worn, faded, damaged or covered lane markers

Will OnLane warn me if another car cuts me off?

No, OnLane is a lane departure warning system not a collision warning system.

Why does the system give an audible warning for no reason?

The OnLane system is designed to reduce false alarms through the False Alarm Detection and Suppression feature which suppresses alerts in construction zones and when the system loses lane marker tracking confidence. A reason you might be hearing a warning is the DAW feature will trigger distinct audible warnings if it detects erratic driving behavior. The alert will stop when the driving performance has improved or when the key is cycled.

What is the minimum speed that will activate OnLane?

The system is active when the vehicle's speed is over 42 mph.

Does OnLane work with any manufacturer?

OnLane is released at all the major OEMs. It is also available as a retrofit option.

What is the Retrofit Kit part number?

- Freightliner Cascadia S400 873 109 2
- Navistar Prostar S400 873 110 2
- PACCAR T660/T800 S400 873 111 2
- PACCAR T700/PB587 S400 873 112 2
- PACCAR T680/PB579 S400 873 113 2

For more information regarding other truck models, contact Meritor WABCO's OnTrac at 1-866-668-7221.

Where can I download a retrofit installation guide or maintenance manual for more information?

OnLane's Installation Templates, Maintenance Manual (MM-1291), Retrofit Installation Guide (TP-14111) and Driver Tips (SP-1335) can be downloaded online at Meritor WABCO's website at www.meritorwabco.com under the Literature section.