

System Availability Indicator

Some severe environmental conditions may interfere with the system's ability to provide assistance for the driver. When the system is not able to provide assistance, the vehicle's AMBER indicator will turn ON. The system resumes operation when the environmental factors causing the interference are resolved.

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

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OnLane™ Lane Departure Warning

For more information on Meritor WABCO's OnLane Lane Departure Warning System, call our OnTrac Customer Service team at 866-OnTrac1 (866-668-7221) or visit meritorwabco.com

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Meritor WABCO Vehicle Control Systems
2135 West Maple Road, Troy, Michigan 48084, USA
Phone: 866-ONTRAC1 (866-668-7221)
Fax: 248-435-8002

meritorwabco.com

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OnLane™ Driver Tips

Lane Departure Warning System



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Lane Departure Warning

Driver Tips



This Driver Tips Guide applies to vehicles equipped with the OnLane™ Lane Departure Warning System with SafeTraK technology by Takata. OnLane is a camera-based warning system that helps your driver avoid unintentional lane drifting.

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 a turn signal being activated, the system sounds an audible warning. This alerts the driver to take a corrective action to prevent potential collisions or run-off-road accidents.

OnLane also offers the Driver Alertness Warning (DAW) feature. DAW helps the driver to stay alert by providing an audible warning when it detects erratic driving behavior or continuous weaving within the driving lane.

Warning: The OnLane system is designed, manufactured and installed as a driver assistance system. This system is not intended to replace good attentive driving behaviors which can be affected by traffic and road conditions. Please read the following information to properly operate the system and understand the situations in which this system may not provide assistance.

System Startup

OnLane powers up when vehicle ignition is turned on. The system performs a series of self tests during startup. During the self test, the vehicle indicators and vehicle speakers will operate briefly. After successful completion, the system is ready for use. Lane Departure Warning alerts become active after the vehicle reaches 42 mph.

Vehicle Light Indicators

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)

Intentional Lane Changes

The system identifies intentional lane changes by detecting the use of turn signals, brake switch and vehicle speed. When a lane change is intentional, the assistance warnings are disabled. 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

Unintentional Lane Departure

The system is constantly observing and calculating the truck's position within the lane. In the event of an unintentional lane change, the system provides audible warnings (rumble strip noise) to inform the driver of this possible unintended event. This warning is intended to alert the driver to make appropriate steering adjustments.

Driver Alertness Warning (DAW)

The system detects erratic or degraded driving based on weaving behavior within the driving lane. OnLane computes a "Driver Alertness Index" based on driving performance and alerts the driver when it falls below a certain threshold. DAW warns the driver by providing a distinct audible warning when it detects erratic driving behavior within the driving lane. The alert will stop when the driving performance has improved or when the key is cycled.

Temporarily Disabling 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 by pressing the OnLane switch again. Disabling the system does not disable the video capturing function.

The truck must be driving within a lane for the system to register the lane markings. If the driver takes one of the following actions, the system will be temporarily disabled when:

- Driving in and out of the lane repetitively
- Driving over the lane marker and staying outside the lane for a prolonged period of time

System will reactivate when the truck registers that it is back within the lane.