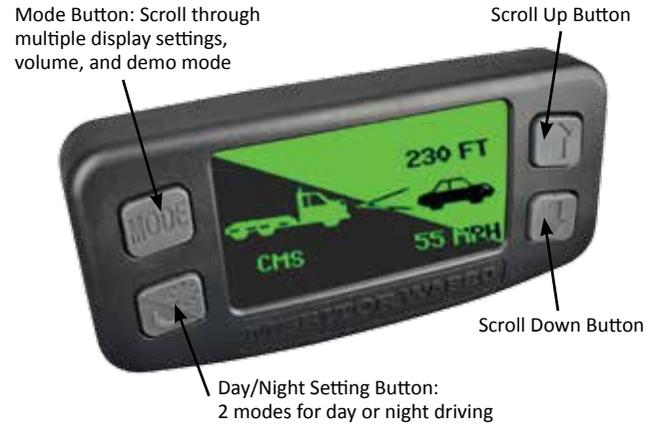


OnGuard Display



Refer to the OEM operator manual for display information if the Meritor WABCO display is not used.

The OnGuard display gives you the option to change the alarm volume, LCD intensity, LCD contrast and display units.

To Change Display Settings:

- Press the **MODE** key to enter the display settings menu
- Press the **UP/DOWN** keys to scroll through the menu list
- Press the **MODE** key to edit the selected option
- Press the **UP/DOWN** keys to change the option settings
- Press the **MODE** key to save your new settings

Safe Vehicle Operation

The OnGuard CMS continuously conducts predefined calculations designed to alert you to potentially dangerous driving situations. When operating a vehicle with the OnGuard Collision Mitigation System, it is very important to adhere to the following:

- **OnGuard should only be considered as an aid and is not intended to replace driver control over the vehicle at any time.**
- **When operating your vehicle, always use safe driving techniques. The driver is always the most important element in safe vehicle operation.**
- **OnGuard is only intended to assist reaction and response time. OnGuard is not a substitute for proper driver braking and should be considered only as a driver assistance system.**

System Limitations

The OnGuard CMS only brakes for moving objects located directly in front of your vehicle and does not operate when your speed is less than 15 mph. Accordingly, OnGuard:

- **Will not react and alert you to objects crossing in front of you or oncoming traffic.**
- **Should not be relied on to track lead vehicles when traveling through a severe curve in the road.**
- **Will alert but not actively brake on stationary objects.**
- **Should not be relied upon to track smaller objects (e.g. motorcycles, mopeds, bicycles, pedestrians, etc.)**
- **Should not be relied on to alert drivers to vehicles in an adjacent lane.**

MERITOR WABCO

Safety Strong. Efficiency Smart.

OnGuard™ Collision Mitigation System

For more information on Meritor WABCO's OnGuard Collision Mitigation System, call our OnTrac Customer Service team at 866-OnTrac1 (866-688-7221) or visit meritorwabco.com

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OnGuard™ Driver Tips Collision Mitigation System

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Collision Mitigation System

Driver Tips

This User's Guide applies to vehicles equipped with the OnGuard™ Collision Mitigation System (CMS), a radar-based active safety system that offers collision warning and mitigation.

OnGuard detects objects ahead and measures the vehicle's position in relation to others on the road to warn the driver of a possible rear-end collision by providing audible, visual and haptic warnings. When appropriate, the system will apply the brakes to help mitigate a rear-end collision. OnGuard monitors the road and provides warnings and active braking even when cruise control is not set. The system also warns on stationary objects, such as cars, to alert the driver of potential obstructions in their lane.

OnGuard is not intended to replace driver control of the vehicle at any time. You, as the driver, remain in control of your vehicle and ultimately determine the actions that are necessary for safe operation.

Collision Mitigation System

OnGuard's CMS assists the driver in recognizing and responding to potentially dangerous driving scenarios that could lead to a rear end collision. The system responds by sending warnings, automatically reducing engine torque and applying foundation brakes.

OnGuard's CMS will provide both visual and audible alerts through an in-cab dash display when the vehicle's following interval could result in a rear-end collision. If a potential rear-end collision is developing and the driver does not take action to decelerate the vehicle, OnGuard's active braking feature issues a haptic

warning (short brake pulse) and automatically de-throttles the engine. If a potential rear-end collision still exists, and the driver has not taken the appropriate action, OnGuard's CMS will apply the foundation brakes to provide up to 50% of available braking power. When OnGuard activates your vehicle's brakes, your brake lights will come on.

The active braking application is intended to assist the driver to avoid or reduce the severity of a collision. The driver must take the appropriate corrective action in response to the collision warning. OnGuard warnings will not be issued if you are driving at a speed below 15 mph.

In-Cab Dash Display

Screen Background Colors:

Blue: General operating mode with no target vehicle detected

Green: Target vehicle detected ahead

Yellow: Following distance alert

Red: Collision warning, Stationary object warning

Amber: Diagnostic fault screen

Operating Modes

Driving Mode

While driving, OnGuard will monitor the road and will emit audible and visual warnings when it detects a possible rear-end collision. CMS is active above 15 mph and will apply brakes if deemed necessary.



No lead vehicle detected. Lead Vehicle detected.

Following-Distance Alert:

The Following-Distance Alert will provide an audible alert and the in-cab dash display screen will turn yellow if you are following another vehicle too closely at a 1.5 seconds following interval (tailgating). This alert will end when the following distance is increased to a safe level.



Following distance alert.

Collision Warning & Mitigation

When an unforeseen event occurs, such as another vehicle enters your lane traveling slower than you are, or the gap between you and a moving vehicle in front of you becomes too close, OnGuard will provide an audible alert and the display will turn red with a collision warning symbol. If the system

determines that a rear-end collision is imminent, it will automatically apply the brakes to reduce the vehicle's speed. You may also feel a haptic (short brake pulse) to warn you of collision danger. **The driver must also take the appropriate corrective action to avoid dangerous driving situations.** If OnGuard detects a stationary object in your vehicle's lane (such as a disabled car) it will provide an audible alert and the display will turn red showing a stationary object symbol. **OnGuard will not apply the brakes or reduce the vehicle's speed when it detects a stationary object.** If your driving speed is below 15 mph, OnGuard warnings will not be active.



Object Collision Warning Stationary Object Warning

System Errors

If you receive an OnGuard system error notification, your display will turn amber and a Diagnostic Trouble Code (DTC) will appear. While your vehicle will still be operable, CMS and forward collision warning will not be available. It is highly recommended that you find a safe place to park and turn off the ignition for one to three minutes. This will reboot your systems and may correct the error. If the condition persists, you should contact your service manager to review the issue. Any error information should be recorded for troubleshooting purposes.

