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# **Electronic Gauge Cluster**

## **Operation and Maintenance Manual**

**Navistar, Inc.**

2701 Navistar Drive, Lisle, IL 60532 USA

## IMPORTANT

The information, specifications, and illustrations contained in this manual are based on data that was current at the time of publication. Navistar, Inc. reserves the right to make changes and/or improvements at any time without notification, liability, or without applying those changes or improvements to vehicles previously manufactured and/or sold.

### NOTICE

Be advised that this motor vehicle may be equipped with computer / recording devices. Their function is to allow an authorized individual to download data or information relating to the operation or performance of this vehicle.

The stored data or information may be neither downloaded nor retrieved except by the vehicle's registered owner, or, in the alternative, by another individual or entity authorized by the registered owner, (e.g., International® dealer) who may need this data or information to properly service or diagnose this vehicle for repair or following an accident.

Any access to this information without the owner's consent may be in violation of law and may subject that person or entity to criminal penalties.

### CALIFORNIA

#### Proposition 65 Warning



**WARNING** Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel)

Battery posts, terminals and other related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Wash hands after handling.

## IMPORTANT

It is important that the applicable vehicle identification number (VIN), engine serial number and or component feature codes are recorded. These numbers are required to obtain pertinent information for this vehicle or engine.

### VEHICLE IDENTIFICATION NUMBER (VIN)

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### ENGINE

Feature Code:	Serial Number:

### FRONT AXLE

Feature Code:	Serial Number:

### REAR AXLE

Feature Code:	Serial Number:

### TRANSMISSION

Feature Code:	Serial Number:

### TRANSFER CASE

Feature Code:	Serial Number:

### CUSTOMER ASSISTANCE CENTER

1-800-44-TRUCK (1-800-448-7825)

### Navistar, Inc.

2701 Navistar Drive  
Lisle, IL 60532 USA  
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## SECTION 1 — FOREWORD

### Preface

Your vehicle has been engineered and manufactured so that it can provide economical and trouble-free service. However, it is the owner's responsibility to see that the vehicle receives proper care and maintenance.

Making modifications to various parts, components, and systems of your vehicle, including the radio systems, can adversely affect the quality and reliability of your vehicle. Such modifications must be avoided.

### Cautions and Warnings

Throughout this manual you will find Cautions and Warnings:



#### CAUTION

Cautions will advise you of the proper care to be taken to avoid damage to your vehicle or property.



#### WARNING

Warnings will advise you of the proper care to be taken, not only to avoid damage to your vehicle or property, but to help prevent situations and occurrences that could result in personal injury or death.

Study this manual carefully. Do not operate the Premium Electronic Gauge Cluster until you are completely familiar with the contents of this manual. Always retain this manual in your vehicle for reference. If you sell the vehicle, make sure the manual goes with it.

### Assistance Guide

When parts are required, always provide the unit code number, vehicle model, and vehicle serial number. Request the salesperson to assist you in obtaining this information upon delivery.

For information not given in this manual, or if you require services of trained service personnel, we urge you to contact a nearby International dealer, or phone 1-800-44-TRUCK (87825) for assistance and choose Option 1. Or call Pana Pacific Customer Service at 1-800-726-2636.

Navistar believes that every customer is entitled to the best service, both from the product itself and from the firm who sells and services that product.

If, for any reason, you do not feel you are receiving these services in connection with the operation of your vehicle or the sales transaction, you should return to your selling dealer so that these matters can be corrected to your satisfaction. If the matter is not resolved at that time, it is suggested that the following steps be taken:

## Foreword

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### Contact a Member of Management at the Dealer.

Discuss the details of the primary concern for service. In most instances any problem can be resolved to your satisfaction by the owner or manager in charge.

### Contact Closest Navistar, Inc. Regional Sales Office.

Should you desire to contact any of these offices, it is important to include the following information in your communication:

- Name under which new vehicle was purchased, address and telephone number of purchaser
- Vehicle model, year, vehicle identification number, component code, and serial numbers
- Vehicle delivery date and present mileage
- Location where purchased
- Details of the problem

### Component Code Numbers

Code numbers are the basis for identifying the components used on International® trucks. They are used by sales personnel to order the truck, by manufacturing to build that truck, and by parts personnel to service the truck. Many items in this manual are identified by codes.

Code numbers are a combination of numbers and / or alphabetical letters. These codes are listed on the Vehicle Line Set Ticket, which is sometimes known as the vehicle specification card or code sheet.

### Line Set Ticket

Each vehicle is provided with a Line Set Ticket (code sheet), which lists identification code numbers of component units used to build the vehicle.

One copy of the line set ticket is included in the literature provided with the vehicle. When replacement parts are required, take this copy with you to positively identify vehicle components and be sure of getting the correct parts.

**NOTE: Be sure to return Line Set Ticket to vehicle after obtaining parts.**



## SECTION 2 — OVERVIEW AND OPERATION

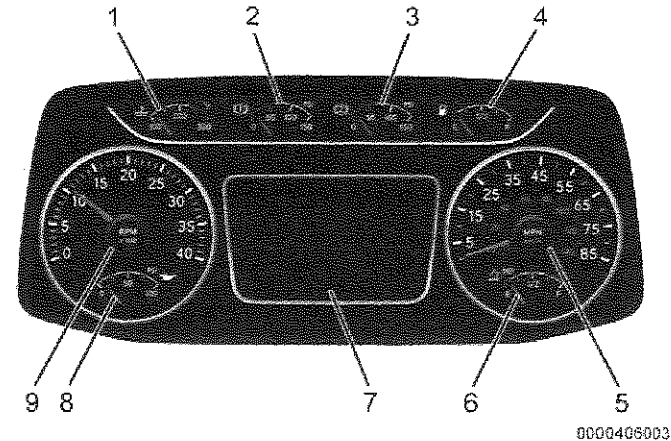
### Introduction

This manual contains information about the Liquid Crystal Display (LCD) Premium Electronic Gauge Cluster. The purpose of the manual is to outline the functions of the Premium Electronic Gauge Cluster LCD display, and explain how to navigate and operate the various screens and features offered by this unit.

It is important to note that this manual explains all of the features that are available from Navistar. Some of these features and functions may not be installed on your vehicle or not included in your instrument cluster based upon the options selected at the time of purchase.

**NOTE:** Be sure to read and understand this manual before attempting to operate or set up the Electronic Gauge Cluster screens.

### Product Description



**Figure 1. Electronic Gauge Cluster**

1. Water temperature gauge
2. Primary air brake pressure gauge
3. Secondary air brake pressure gauge
4. Fuel level gauge
5. Speedometer
6. Diesel exhaust fluid level gauge
7. Cluster display
8. Oil pressure gauge
9. Tachometer

## Overview and Operation

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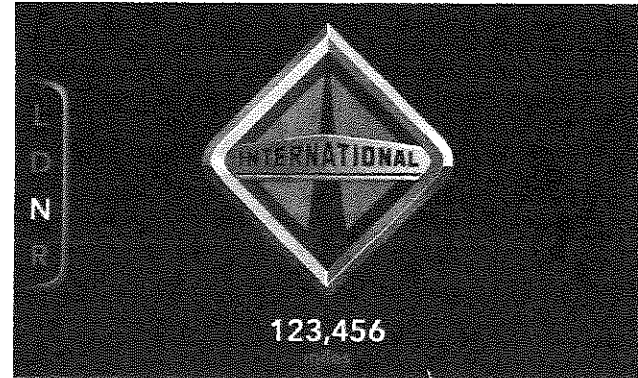
The purpose of the Premium Electronic Gauge Cluster is to provide an advanced and comprehensive way of increasing driver productivity, uptime and safety, while reducing maintenance. The Premium Electronic Gauge Cluster unit has many functions and settings to aid in the operation and safety of the vehicle. The cluster is equipped with the following:

- Cluster display
- Cluster Display Control (CDC)
- Warning indicators
- Gauges

This Premium Electronic Gauge Cluster screen displays the critical operational features and functions of this vehicle. The configuration of the screens in the cluster display are set up to maximize the amount of information that can be provided to the operator of the vehicle.

### START-UP

This cluster display screen will power up when the key is inserted and turned to the accessories or start positions. When the display screen receives power, a start-up screen will appear with the International® logo, odometer, and gear position. This screen will appear for approximately 5 - 6 seconds.

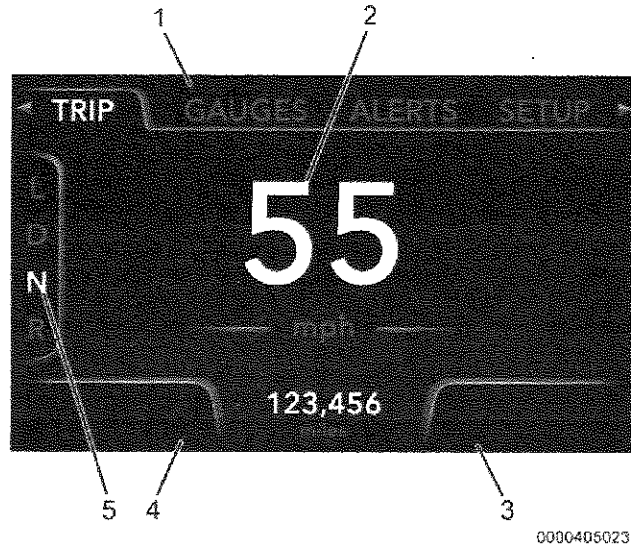


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Figure 2. Start-Up Screen

### Electronic Gauge Cluster Display Screen Layout

The screen is laid out in the following way:



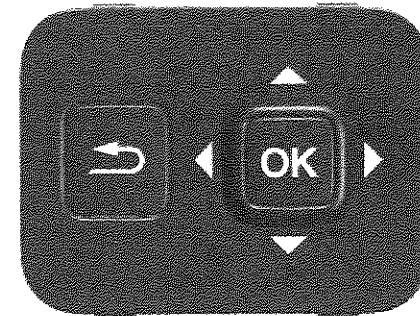
**Figure 3. Cluster Display Screen Layout**

1. Main menu
2. Main information viewer
3. Cruise control information
4. Transmission information
5. Gear indicator (PRNDL)

When the main menu is not active, the top of the screen will display the Top Corner Gauges in the right and left corners.

The screen layout is subject to change depending on the menu option screen selected.

### Controller Operation



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**Figure 4. Cluster Display Control**

The Cluster Display Control (CDC) joystick is used to navigate through the menus and screens and to select the desired settings. The CDC is located on the right-side of the steering wheel, above the ignition switch. The Main Menu will disappear if the control goes inactive for approximately 3 seconds or longer.



**WARNING**

To prevent property damage, personal injury, and / or death, do not use the CDC joystick while the vehicle is in motion.

## Overview and Operation

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The instructions on how to use the CDC are as follows:

1. To prompt the main menu to appear, push left or right on the CDC joystick.
2. Push right or left on the CDC joystick again to scroll through the menu categories until the desired menu category is highlighted.
3. To scroll through main menu categories make sure the desired option is highlighted and push the CDC joystick up or down.
4. To scroll through the subcategories, push the CDC joystick down until the desired option is highlighted.
5. Press OK to select.
6. To return to the previous screen or to the main menu, press the RETURN / BACK button (located next to the cluster display control).
7. To reset trip counters and reset options, push the OK button in for 3 seconds or until the confirmation pop-up appears.
8. To confirm the reset, push the CDC joystick to the left, so that the Confirm option is highlighted and press / click OK.
9. To cancel a reset, make sure the cancel option is highlighted, and press / click OK.

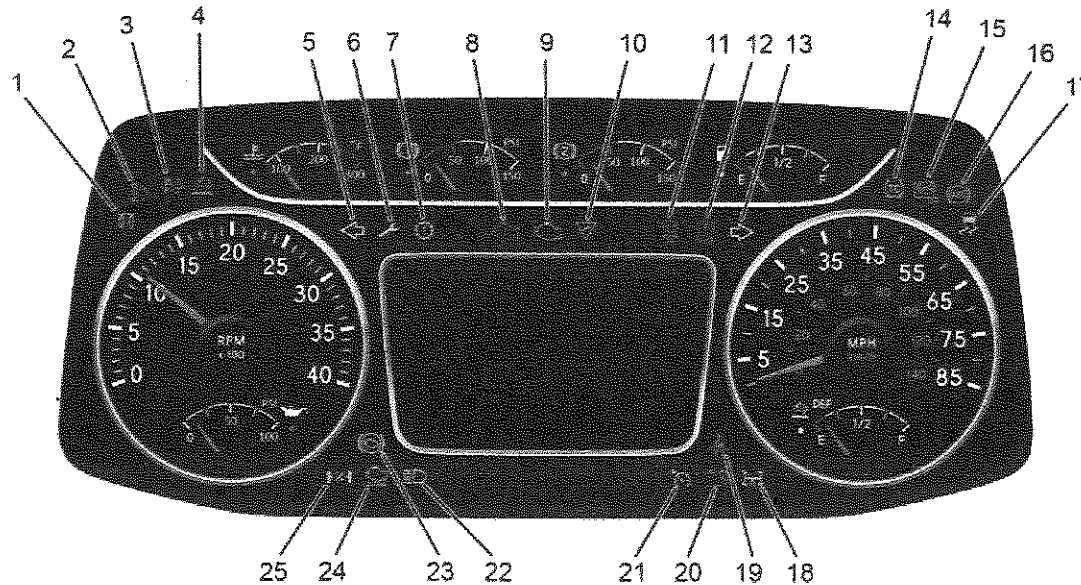
## SECTION 3 — WARNING INDICATORS

### Overview

The Electronic Gauge Cluster contains 25 individual LED warning indicators. These indicators are used to monitor vehicle operation and indicate a WARNING or STOP condition. They are driven by the software in the Electronic Gauge Cluster. At

ignition, these will illuminate for 8 - 10 seconds, as part of the vehicle power-up sequence.








**NOTE: If the MIL is illuminated, it is the vehicle owner's responsibility to have the fault repaired or face fines.**








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Figure 5. Warning Indicator Locations






## Warning Indicators

Lamp #	Warning	Icon	Description
1	Wait to Start		Engine components are warming up; wait till indicator flashes to start engine.
2	DPF		Diesel Particulate Filter restriction.
3	HEST		High Exhaust System Temperature.
4	DEF		Diesel Exhaust Fluid is low.
5	Left Turn		Left turn signal.
6	Maintenance		Used with other warnings to indicate that maintenance is due.
7	Transmission Warning		Fault in transmission.






Lamp #	Warning	Icon	Description
8	RSL		Red Stop Lamp; a serious problem has occurred; safely pull over, turn hazard flashers ON, stop engine and do not start the engine until after servicing.
9	MIL		Malfunction Indicator Lamp; service vehicle at the first available opportunity.
10	AWL		Amber Warning Light; may illuminate under certain high load / high ambient temperature conditions. If lamp continues to illuminate, service vehicle at first available opportunity.
11	Brake Failure		Brake failure (English cluster hydraulic brakes).
11	Brake Failure		Brake failure (English cluster air brakes).




## Warning Indicators

Lamp #	Warning	Icon	Description
11	Brake Failure		Brake failure (Metric cluster).
12	Parking Brake		Parking brake (English cluster).
12	Parking Brake		Parking brake (Metric cluster).
13	Right Turn		Right turn signal.
14	Traction Control (If equipped)		Traction Control is active.  NOTE: Some models were equipped with Battery Voltage indicators in this location.

Lamp #	Warning	Icon	Description
14	Battery Voltage		Battery voltage is low.  NOTE: The battery voltage indicator can be found in location 14 or location 20 depending on cluster model.
15	Trailer ABS		Trailer Antilock Brakes.
16	ABS		Antilock Brake Malfunction; service vehicle immediately.
17	Electronic Stability Control		Electronic Stability Control; a flashing indicator represents that the electronic stability control is engaged, while a solid indicator represents a fault in the system.
18	PTO		Power Take-Off.

## Warning Indicators

Lamp #	Warning	Icon	Description
19	Seat Belt		Seat belt reminder.
20	Battery Voltage		Battery voltage is low. <b>NOTE: Some models were equipped with a SET indicator in this location.</b>
20	Cruise Set (if equipped)	SET 	Cruise Control speed is set.
21	Cruise Enabled		Cruise Control is Active / Set.
22	High Beam		High Beam Lights are ON.

Lamp #	Warning	Icon	Description
23	Engine Brake		Engine Braking in Process.
24	Idle Shutdown		Timer Will Turn OFF Engine in 30 Seconds.
25	Differential Lock		Differential Lock.

### Direct Drive Warnings

There are eight spaces available for the direct drive warning indicators located in the space between the High Beams and Cruise Control indicators. For more information on the direct drive warning indicators, refer to the appropriate Vehicle Operation and Maintenance Manual.



## SECTION 4 — TRIP SCREENS

### Overview

The purpose of the trip counter is to track the progress and to provide information to the driver for a trip involving multiple legs. The trip is started at the initial reset of the counter, and each of the other trip counters is started in the same manner as the first one. When the trip counter is reset the previous trip is replaced, losing all of the data previously stored.

**NOTE: Make sure that the information received by the trip counter is no longer needed before resetting for a new trip, as this information will be lost upon a reset.**

The TRIP tab on the main menu allows the operator to view basic information for the vehicle, along with two trip counters for recording information about the vehicle. Trip screens with the option to be reset include both trip counters and fuel economy.

The trip screens that can be viewed under the Trip main menu category include:

- Speedometer
- Fuel Economy
- Trip 1
- Trip 2

The Trip 1 and Trip 2 screens will log the following information:

- Trip distance
- Trip engine hours
- Trip fuel used
- Trip fuel economy
- Trip average speed
- Trip idle fuel
- Trip idle hours

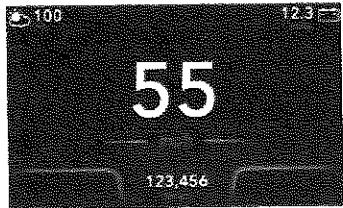

The fuel economy display provides the operator with a reading to monitor extended fuel economy. Instantaneous and average fuel economy will be displayed in this screen.

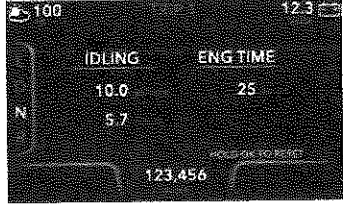
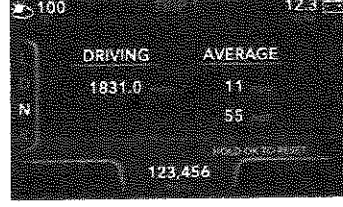
**NOTE: The fuel range screens are estimates and should not be relied on for exact fuel range.**

# Trip Screens

## Trip Screens

The trip screens are shown in the table below.

Screen Option	Screen	Description
Speedometer		This screen displays the current speed the vehicle is traveling.
Fuel Economy		This screen displays both the average and instant fuel economy.

Screen Option	Screen	Description
Trip 1 Screen 1		This screen displays the idle fuel used and run time, as well as engine run time.
Trip 1 Screen 2		This screen displays miles driven along with miles per gallon and miles per hour readings.

## Operation

To scroll through the trip screens or reset the trip screens, perform the following steps:

1. Highlight the Trip option in the main menu.
2. Push the CDC joystick up or down until the desired trip screen is reached.
3. In order to reset a trip counter or the fuel economy, hold the OK button in for 3 seconds.
4. A pop-up screen will be displayed, asking for confirmation of the reset.
5. To confirm, press the CDC to select confirm.

Once this is done, if the reset was carried out, another screen will be displayed confirming the reset.



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Figure 6. Reset Screen

## SECTION 5 — GAUGE DISPLAYS

### Overview

The Gauges main menu category displays different vehicle information and allows the operator to monitor the vehicle operating conditions. The purpose of the gauge views is to provide real time vehicle information to the operator. If any of the digital analog gauges are above or below the threshold or out of range, then the gauge will be highlighted in RED.

The different subcategories for the Gauges option include:

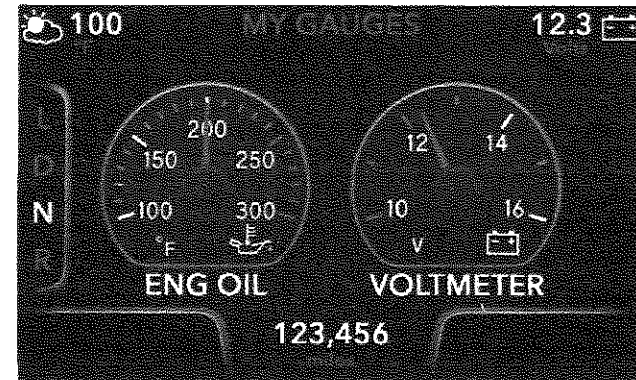
- My Gauges
- Vehicle
- Engine
- Transmission
- Axle

These options contain informational gauges that pertain to the title of the subcategory selected. The My Gauges option is an operator-controlled feature in which the operator selects desired or frequently used gauges to put into the subcategory for easy access.

**NOTE:** Gauges may vary depending on the options chosen at time of purchase.

### My Gauges

The My Gauges subcategory displays selected gauges that will be viewed most frequently. This category has the option of showing two gauges side by side or one gauge by itself. For help setting up the My Gauges subcategory, see the Display and Gauge Settings information located in Section 7.



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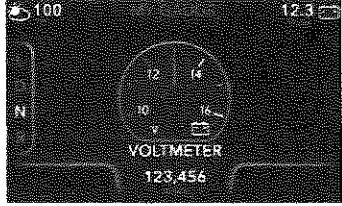

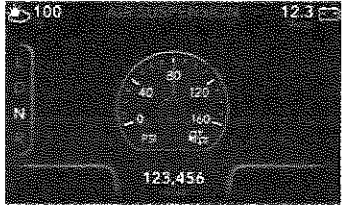
Figure 7. My Gauges

The gauges in the My Gauges subcategory can be set up with any of the gauges from the subcategories, or the operator can also set up the gauges to view speed, range estimates for both fuel and DEF fluid, and rpm.

# Gauge Displays

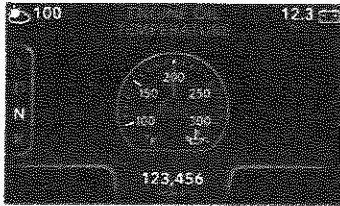
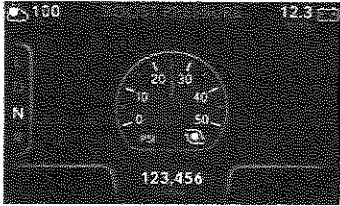
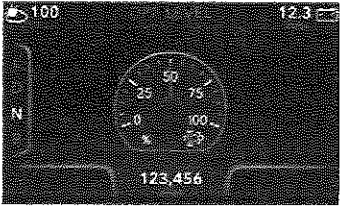
## Vehicle

The gauges in the Vehicle subcategory are as follows:

Gauge	Screen	What It Measures
Voltmeter		Battery voltage.
Air Application		Air flow in PSI (pounds per square inch).
Air Suspension		Air suspension in PSI.

## Engine

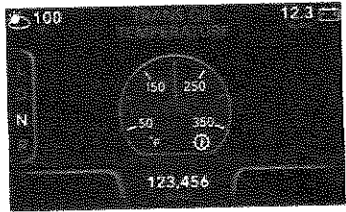
The gauges in the Engine subcategory are as follows:

Gauge	Screen	What It Measures
Engine Oil Temperature		The temperature of the engine oil.
Boost Pressure		The amount of air forced into the combustion chamber by the turbo; this is measured in pounds per square inch (PSI).
DPF Level		The diesel particulate filter soot load measured as a percent (%).

## Gauge Displays

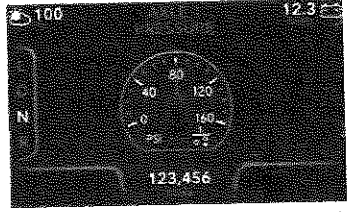
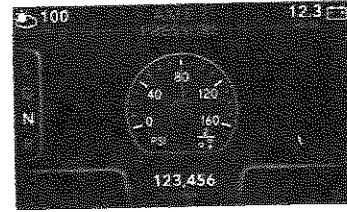
### Transmission

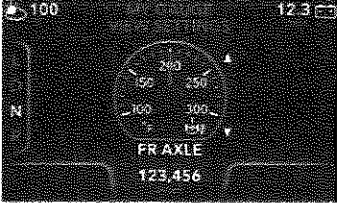

The gauges for the Transmission subcategory are as follows:

Gauge	Screen	What It Measures
Transmission Oil Temperature		The temperature of the transmission oil.

### Axle

The gauges for the Axle subcategory are as follows:

Gauge	Screen	What It Measures
Axle 1 Pressure		The pressure on Axle 1 in PSI (pounds per square inch).
Axle 2 Pressure		The pressure on Axle 2 in PSI.

Gauge	Screen	What It Measures
Axle 3 Pressure	Image Not Shown	The pressure on Axle 3 in PSI.
Front Rear Axle Temperature		The temperature of the front rear axle in degrees Fahrenheit.
Rear Rear Axle Temperature		The temperature of the rear rear axle in degrees Fahrenheit.

## Operation

To view any of the gauge displays in the Gauges main menu option, use the following process:

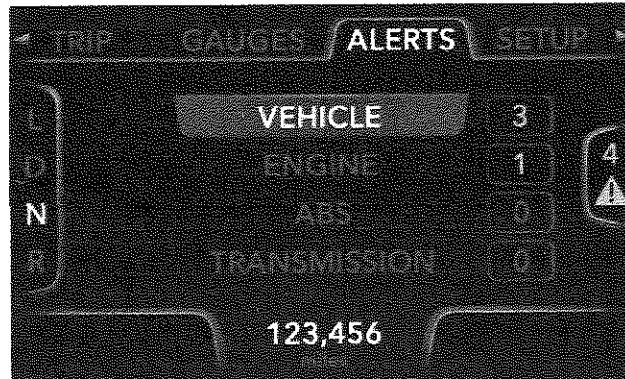
1. Press the CDC joystick right to prompt the main menu to come up and scroll to the right until the Gauges Category is highlighted.
2. Push the CDC joystick down to scroll until the desired subcategory is highlighted, and press OK.
3. This will give the option to view the preselected gauges in My Gauges, or to view individual gauges in the other gauge subcategories.



## SECTION 6 — SYSTEM ALERTS

### Overview

The purpose of the alert system is to make the operator aware of safety concerns, active features, setting changes, severe problems, and maintenance reminders. The system alerts will appear on the screen as a pop-up. Once the pop-up disappears the operator can view it again in the Alerts menu, where the DTCs also may be viewed. Some of the alerts will require operator confirmation, while others will have a timed out process in which they will disappear after a period of time. To confirm an alert requiring operator confirmation, press and hold the OK button until the alert disappears.



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Figure 8. Alerts Menu

### WARNING

To prevent property damage, personal injury, and / or death, read and understand all alerts that pop up as they can provide information on severe problems or upcoming required vehicle maintenance.

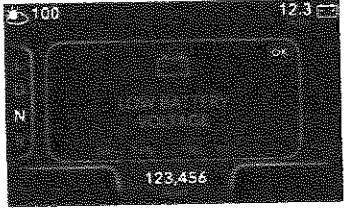

The four numbers on the right of subcategories represents the number of alerts that are active for that subcategory. The number on the far right with the warning sign indicates the number of total alerts present. To view the alerts, perform the following process:


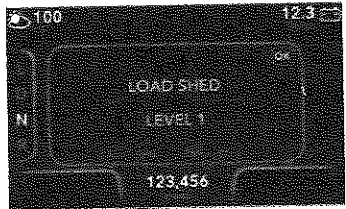
1. Scroll to the Alerts option in the main menu.
2. Then select one of the four subcategories, and press OK.
3. This will display the alerts for that subcategory.
4. The alerts will be in the form of a full screen pop-up. To scroll through the different alerts for the chosen subcategory, push up or down on the CDC joystick.

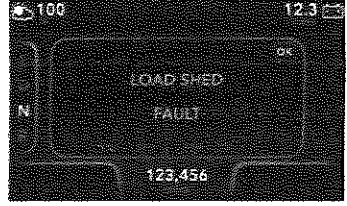
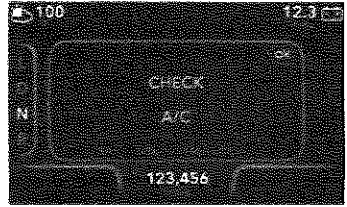

# System Alerts

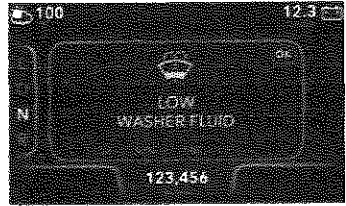
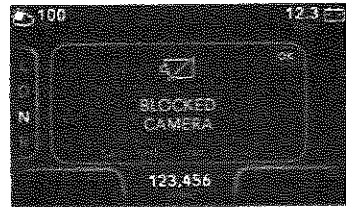
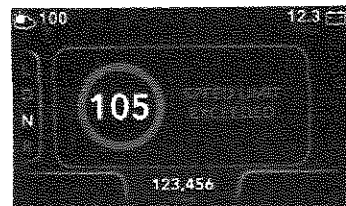
## Vehicle

The alerts for the Vehicle subcategory are as follows:

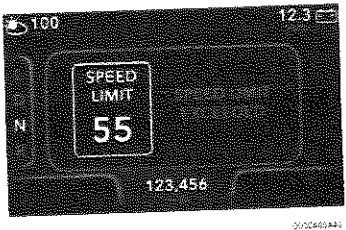

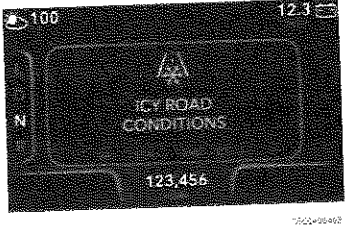
Alert	Screen	Description
Low Battery Voltage		The battery voltage is getting low and service may be required.
High Forward Rear Axle Temperature		The forward rear axle temperature is above threshold. Allow vehicle temperatures to cool down during heavy load conditions, if light stays ON consistently, service is required.

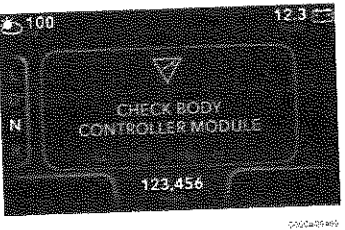
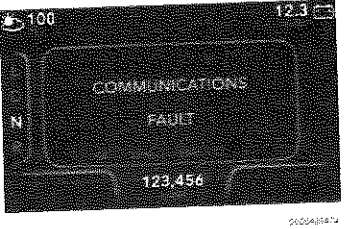
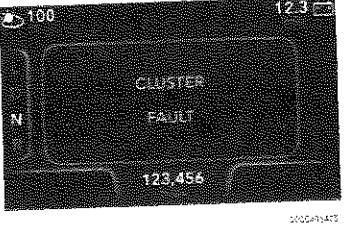
Alert	Screen	Description
High Rear Rear Axle Temperature		The rear rear axle temperature is above the threshold. Allow vehicle temperatures to cool down during heavy load conditions, if light stays ON consistently, service is required.
Load Shed Level 1		This tracks electrical load when the vehicle is not running, or if there is a problem with the charging system.

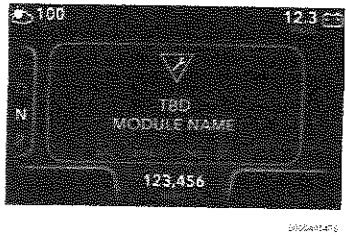
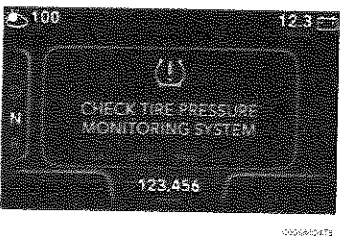

Alert	Screen	Description
Load Shed Fault		There is a fault in the load control, service is required.
Check A/C		Check the air conditioning system; service may be required.
Service Park Brake		The parking brake has a malfunction and needs to be serviced.

Alert	Screen	Description
Low Washer Fluid		The washer fluid needs to be refilled.
Blocked Camera		The forward camera is blocked; inspect for obstructions and direct sunlight conditions.
Excessive Overspeed		The vehicle is in extreme excess of the speed limit.

# System Alerts

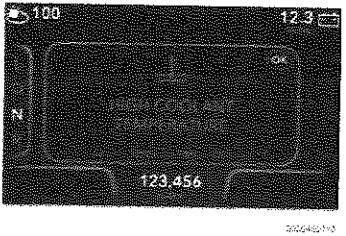
Alert	Screen	Description
Speed Limit Exceeded		The vehicle is currently traveling over the posted speed limit.
Warning Forward Radar Blocked		There is an object blocking the forward radar that could affect the ACC / CMS system.
Icy Road Conditions		Icy road conditions are possible.

Alert	Screen	Description
Check Body Controller Module		Vehicle service is required.
Communications Fault		Vehicle service is required.
Cluster Fault		Vehicle service is required.

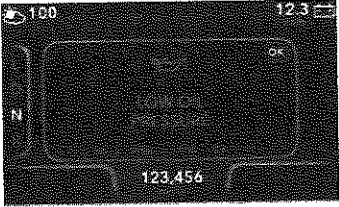
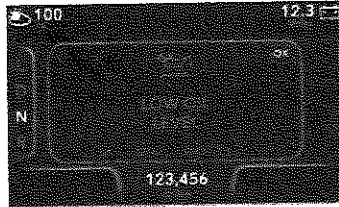
Alert	Screen	Description
Module Addresses		Vehicle service is required.
Check Tire Pressure Monitoring System		Inspect tires for over / under inflation. If the tire pressure is correct, service vehicle soon.
Check ACC / CMS System (Adaptive Cruise Control and Collision Mitigation System)		ACC / CMS systems have faults. Service vehicle soon.

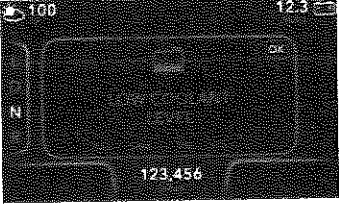

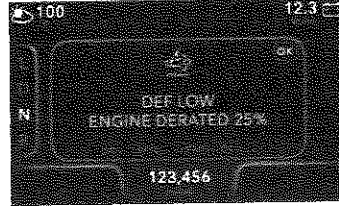
## Engine

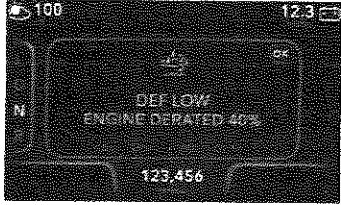
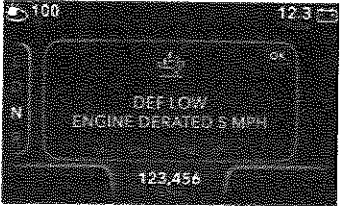

The alerts for the Engine subcategory are as follows:


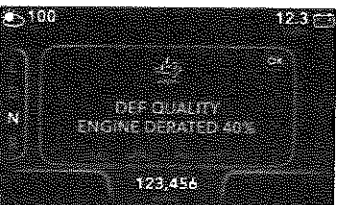
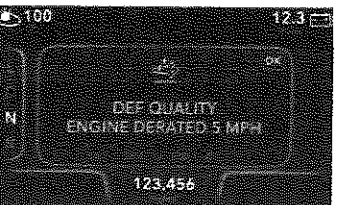
Alerts	Screens	Description
High Coolant Temperature		Coolant temperature is getting too hot; inspect coolant level and fill to proper level if needed. If level is correct, immediate vehicle service is required; do not operate for extended period of time.

# System Alerts

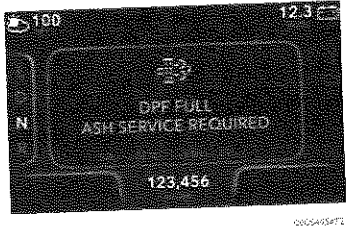

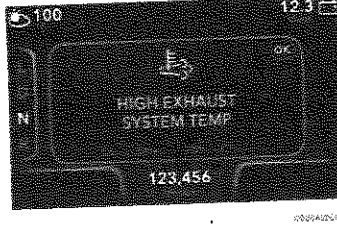
Alerts	Screens	Description
Low Oil Pressure		Oil pressure is below specification; inspect oil level and fill to proper level if needed. If level is correct, immediate vehicle service is required; do not operate for extended period of time.
Low Oil Level		Oil level is below specification; inspect oil level and fill to proper level if needed. If level is correct, vehicle service is required.


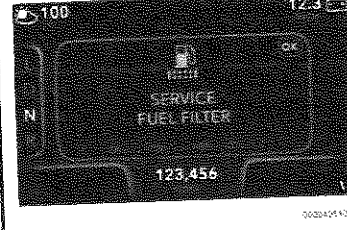

Alerts	Screens	Description
Low Coolant Level		Coolant level is below specification; inspect coolant level and fill to proper level if needed. If level is correct, vehicle service is required.
DEF Low Refill Soon		Diesel Exhaust Fluid (DEF) is below specification; refill soon.
DEF Low Engine Derated 25%		Diesel exhaust fluid is below specification; refill DEF tank. Engine performance is decreased by 25%.

Alerts	Screens	Description
DEF Low Engine Derated 40%	 A screenshot of a vehicle's instrument cluster showing a warning icon of a lightning bolt with a slash through it. The text reads "DEF LOW ENGINE DERATED 40%". The odometer shows 123,456 miles. The gear indicator shows 'N'. There are '100' and '12.3' indicators at the top.	Diesel exhaust fluid is below specification; refill DEF tank. Engine performance is decreased by 40%.
DEF Low Engine Derated to 5 MPH	 A screenshot of a vehicle's instrument cluster showing a warning icon of a lightning bolt with a slash through it. The text reads "DEF LOW ENGINE DERATED 5 MPH". The odometer shows 123,456 miles. The gear indicator shows 'N'. There are '100' and '12.3' indicators at the top.	Diesel exhaust fluid is below specification; refill DEF tank. Engine performance is limited to 5 mph (8 km/h).
DEF Quality Service Soon	 A screenshot of a vehicle's instrument cluster showing a warning icon of a lightning bolt with a slash through it. The text reads "DEF QUALITY SERVICE SOON". The odometer shows 123,456 miles. The gear indicator shows 'N'. There are '100' and '12.3' indicators at the top.	The diesel exhaust fluid quality is below threshold; service DEF system soon.

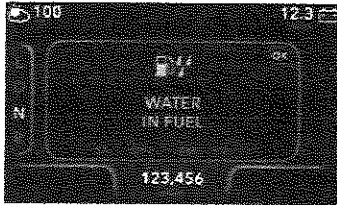
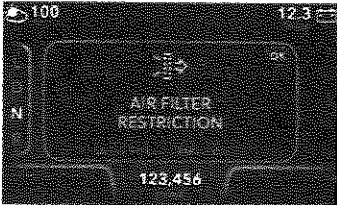

Alerts	Screens	Description
DEF Quality Engine Derated 25%	 A screenshot of a vehicle's instrument cluster showing a warning icon of a lightning bolt with a slash through it. The text reads "DEF QUALITY ENGINE DERATED 25%". The odometer shows 123,456 miles. The gear indicator shows 'N'. There are '100' and '12.3' indicators at the top.	The diesel exhaust fluid quality is below threshold; the engine performance will decrease by 25%. Service DEF system soon.
DEF Quality Engine Derated 40%	 A screenshot of a vehicle's instrument cluster showing a warning icon of a lightning bolt with a slash through it. The text reads "DEF QUALITY ENGINE DERATED 40%". The odometer shows 123,456 miles. The gear indicator shows 'N'. There are '100' and '12.3' indicators at the top.	The diesel exhaust fluid quality is below threshold; the engine performance will decrease by 40%. Service DEF system soon.
DEF Quality Engine Derated to 5 MPH	 A screenshot of a vehicle's instrument cluster showing a warning icon of a lightning bolt with a slash through it. The text reads "DEF QUALITY ENGINE DERATED 5 MPH". The odometer shows 123,456 miles. The gear indicator shows 'N'. There are '100' and '12.3' indicators at the top.	The diesel exhaust fluid quality is below threshold; the engine performance will decrease to 5 mph (8 km/h). Service DEF system soon.

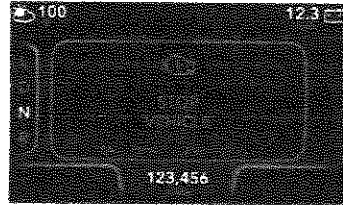
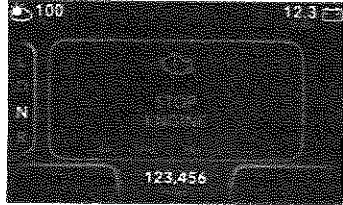
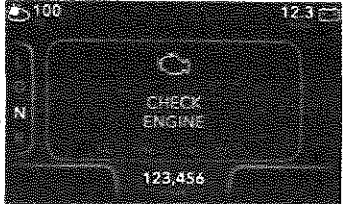
# System Alerts

Alerts	Screens	Description
DPF Full Ash Service Required		The diesel particulate filter (DPF) is full of ash; vehicle service is required.
Change Engine Oil		Engine oil change is required.
High Exhaust System Temperature		This is normal operation when vehicle is under regeneration at low speeds.

Alerts	Screens	Description
High Oil Temperature		Oil temperature is above specification; allow vehicle temperature to cool down during heavy engine load conditions. If light stays ON consistently service is required.
Service Fuel Filter		The fuel filter needs to be changed; vehicle service is required.
Change Oil Filter		The oil filter needs to be changed; vehicle service is required.






Alerts	Screens	Description
Water in Fuel	 A digital instrument cluster screen showing a fuel pump icon with a water drop, the text "WATER IN FUEL", and the odometer reading "123,456". The top of the screen shows a battery level of 100 and a time of 12:3. A gear indicator "N" is visible on the left side.	There is water in the fuel system; vehicle service is required.
Air Filter Restriction	 A digital instrument cluster screen showing an air filter icon with a red arrow pointing to it, the text "AIR FILTER RESTRICTION", and the odometer reading "123,456". The top of the screen shows a battery level of 100 and a time of 12:3. A gear indicator "N" is visible on the left side.	Inspect the air filter for restriction; if restriction is not identified, vehicle service is required.
Park Regen Needed	 A digital instrument cluster screen showing a battery icon with a red lightning bolt, the text "PARK REGEN NEEDED", and the odometer reading "123,456". The top of the screen shows a battery level of 100 and a time of 12:3. A gear indicator "N" is visible on the left side.	Park the vehicle; exhaust regeneration is needed.

Alerts	Screens	Description
Stop Vehicle	 A digital instrument cluster screen showing a large red exclamation mark, the text "STOP VEHICLE", and the odometer reading "123,456". The top of the screen shows a battery level of 100 and a time of 12:3. A gear indicator "N" is visible on the left side.	Bring the vehicle to a stop; there is a severe problem; service vehicle immediately.
Stop Engine	 A digital instrument cluster screen showing a large red exclamation mark, the text "STOP ENGINE", and the odometer reading "123,456". The top of the screen shows a battery level of 100 and a time of 12:3. A gear indicator "N" is visible on the left side.	Stop the vehicle and turn the engine OFF; service vehicle immediately.
Check Engine	 A digital instrument cluster screen showing a check engine icon, the text "CHECK ENGINE", and the odometer reading "123,456". The top of the screen shows a battery level of 100 and a time of 12:3. A gear indicator "N" is visible on the left side.	System fault in the engine; vehicle service is required.

# System Alerts

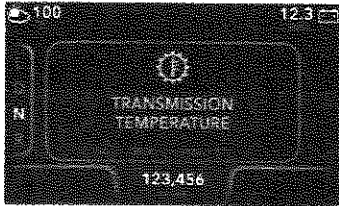

## Antilock Braking System


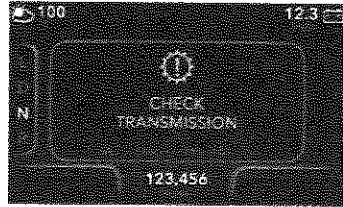

Alerts for the Antilock Braking System (ABS) subcategory are as follows:

Alert	Screen	Description
<p>Brake Fluid Low</p>		<p>Brake fluid is below specification; service vehicle soon.</p>
<p>ACC Warning: Brake Overuse</p>		<p>The Adaptive Cruise Control system is having to engage the brakes too often.</p>
<p>Check ABS</p>		<p>Check for faults in the ABS system. Service vehicle soon.</p>



Transmission

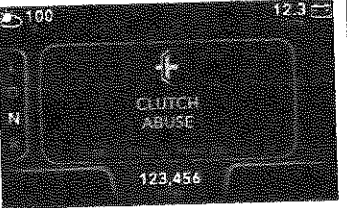

Alerts for the Transmission subcategory are as follows:

Alert	Screen	Description
Transmission Temperature		Transmission temperature is above specification; allow vehicle temperature to cool down during heavy load conditions. If light stays ON consistently service is required.
Transmission Oil Filter		Change transmission oil filter; vehicle service is required.

Alert	Screen	Description
Service Transmission		Transmission service is required; service vehicle soon.
Check Transmission		Check the transmission for faults; service vehicle soon.
Change Transmission Oil Soon		Transmission oil change is about to be due; service is required soon.

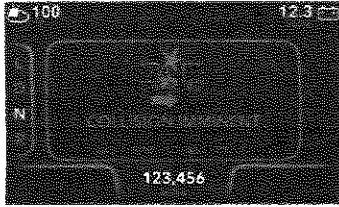
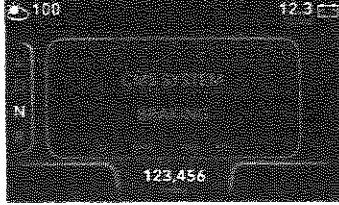
## System Alerts




Alert	Screen	Description
High Retarder Overtemp		The retarder brake assist is over the threshold operating temperature. Allow vehicle temperature to cool down during heavy load conditions, if light stays ON consistently service is required.
Retarder Failed		The retarder brake assist has failed; vehicle service is required.

Alert	Screen	Description
Clutch Abuse		Warning the clutch is being abused and could cause damage.
Trans Air Pressure Low Warning		The transmission air tank pressure is low and may affect forward and reverse gear engagement. Let air pressure build and press the OK button to clear the alert.

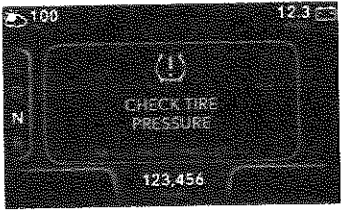
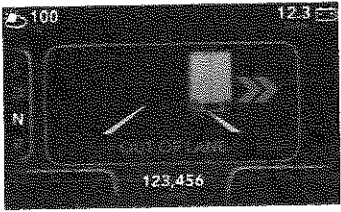
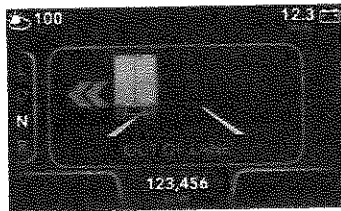
### Caution, Warning, and Other Pop-Ups

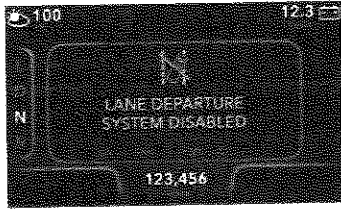


The vehicle is equipped with warning and caution screens. These screens pop up to alert the operator that there is a problem, or that there are potential hazardous conditions. Some of these pop-ups may require driver confirmations. There are also other non-caution / warning screens that give information on active or inactive systems. The screens are shown in the table below. These pop-ups may not be visible in the Alerts category.

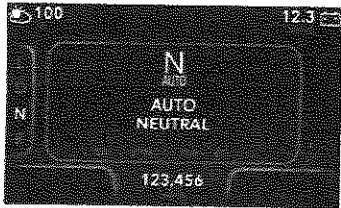
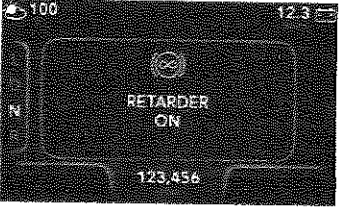
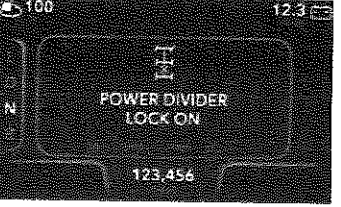
Pop-up	Screen	Description
Collision Imminent		A collision is highly likely under current driving conditions.
CMS System Braking		The Collision Mitigation System is braking the vehicle.

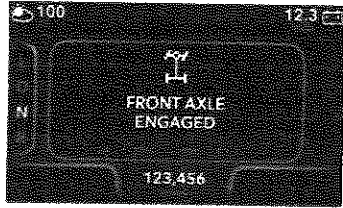
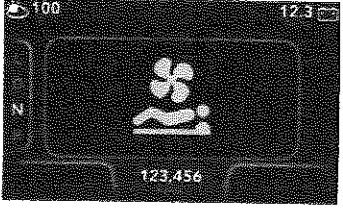

Pop-up	Screen	Description
Wait for Transmission to Warm Up		Wait for the transmission to warm up before putting the vehicle in motion.
Push Brake Pedal to Engage Gear		In order for the gear to be engaged, push the brake pedal.
Warning Dyno Mode		The vehicle is in dyno mode.

# System Alerts

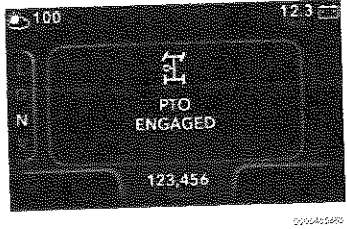
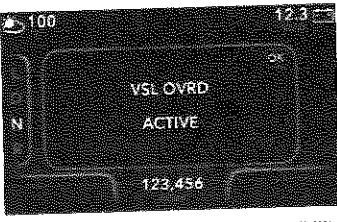
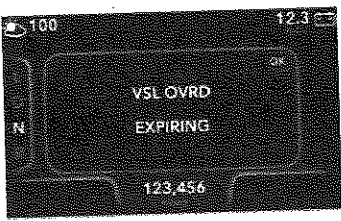
Pop-up	Screen	Description
Check Tire Pressure		Fill tire to proper PSI and inspect tire for damage.
Lane Departure Right		The vehicle is veering right without the use of a turn signal.
Lane Departure Left		The vehicle is veering left without the use of a turn signal.


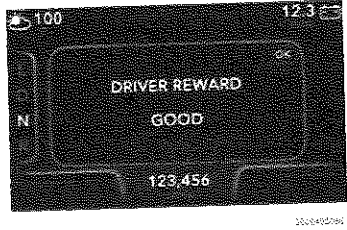
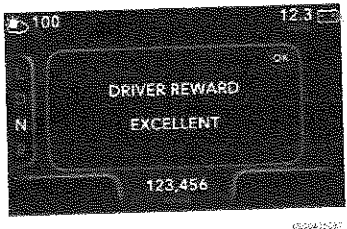
Pop-up	Screen	Description
Lane Departure System Disabled		The lane departure system is turned OFF.
Lane Departure System Enabled		The lane departure system is ON.
Check Lane Departure System		Check the lane departure system for faults; service vehicle soon.

Pop-up	Screen	Description
Auto Neutral	 <p>0000430403</p>	This applies to Eaton® transmissions only.
Retarder On	 <p>0000430491</p>	The brake retarder is turned ON.
Power Divider Lock On	 <p>0000430400</p>	The power divider lock is engaged.

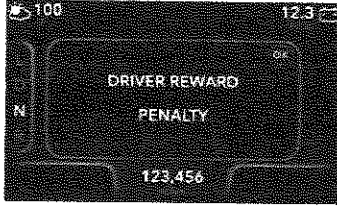
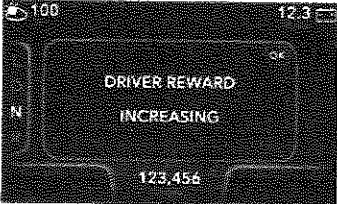
Pop-up	Screen	Description
Front Axle Engaged	 <p>0000430487</p>	The front steer axle 4 x 4 is engaged.
Sleeper Fan On	 <p>0000430488</p>	The fan in the sleeper is turned ON.
A/C Sleeper Fan On	 <p>0000430489</p>	The A/C in the sleeper is turned ON.

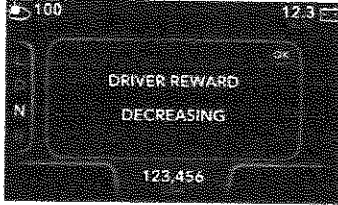
# System Alerts

Pop-up	Screen	Description
PTO Engaged		The Power Take-Off is engaged.
Vehicle Speed Limit Override Active		The vehicle speed limit override has been activated.
Vehicle Speed Limit Override Expiring		The vehicle speed limit override is about to turn OFF.

Pop-up	Screen	Description
Driver Reward Expected		This is a reward indication that results in higher vehicle speed limits.
Driver Reward Good		This is a reward indication that results in higher vehicle speed limits.
Driver Reward Excellent		This is a reward indication that results in higher vehicle speed limits.



Pop-up	Screen	Description
Driver Reward Penalty		This is a penalty indication that results in lower vehicle speed limits.
Driver Reward Increasing		This informs the operator that vehicle speed limit will increase soon.

Pop-up	Screen	Description
Driver Reward Decreasing		This informs the operator that vehicle speed limit will decrease soon.
Rear HVAC Fan Speed	Image Not Shown	This indicates the fan speed of the rear HVAC system.
Rear HVAC Temperature	Image Not Shown	This indicates the rear HVAC temperature.

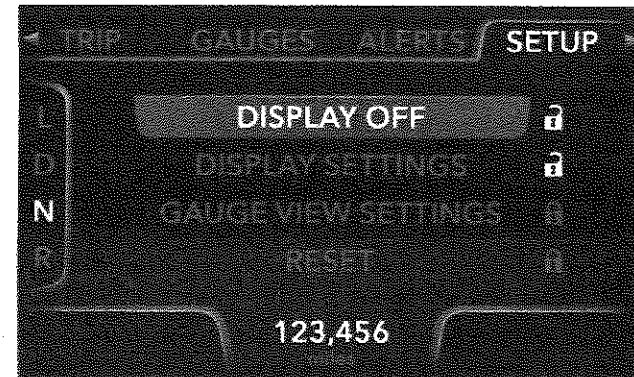
## SECTION 7 — DISPLAY AND GAUGE SETTINGS

### Overview

The Display and Gauge Settings menu option allows the operator to set up the following:

- Language Settings
- Gauge Settings
- Units of Measurement
- Default Settings Reset Option

The lock on the right side of the subcategories indicates that these settings cannot be adjusted while the vehicle is in motion. If the lock indicator is in the unlock view, then the setting can be adjusted.



0000405131

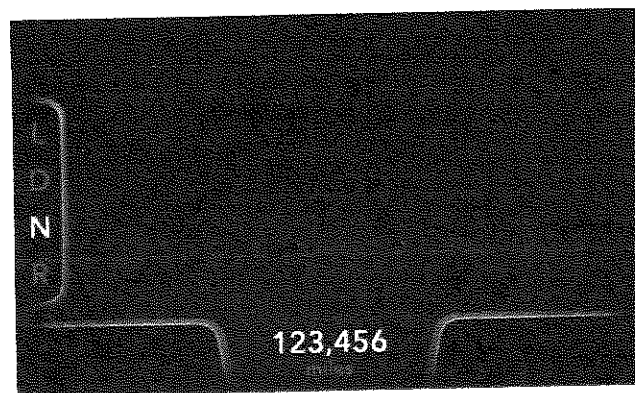
Figure 9. Setup Menu



To prevent property damage, the cluster settings cannot be adjusted while the vehicle is in motion.

### Display OFF

Selecting the display OFF function will put the screen into a minimal display mode. The gear selection indicator will be displayed along with the odometer while the rest of the screen is blank. The screen display will reactivate upon any motion of the pagination control.



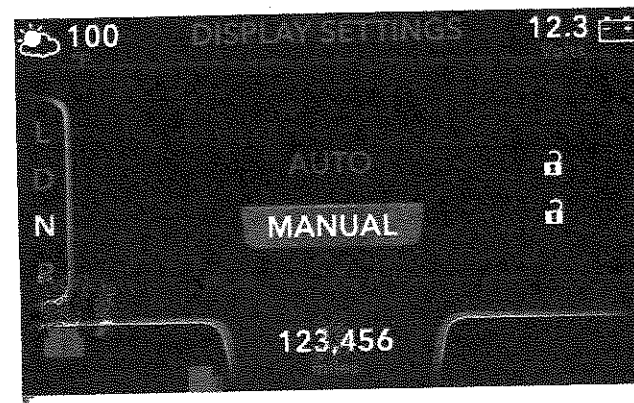
0000405136

Figure 10. Display OFF

### Display Settings

The Display Settings subcategory allows for the adjustment and setup of the backlight, units of measurement, and language.

### BACKLIGHT DISPLAY

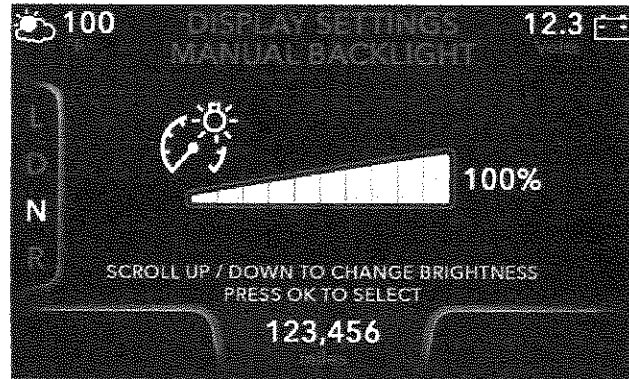


0000408851

Figure 11. Backlight Menu

The screen backlighting option adjusts the brightness of the screen and gauges on the instrument cluster. The auto option adjusts the backlighting automatically according to ambient lighting. The manual option allows the operator to adjust the backlight to any brightness desired within the setting limits.

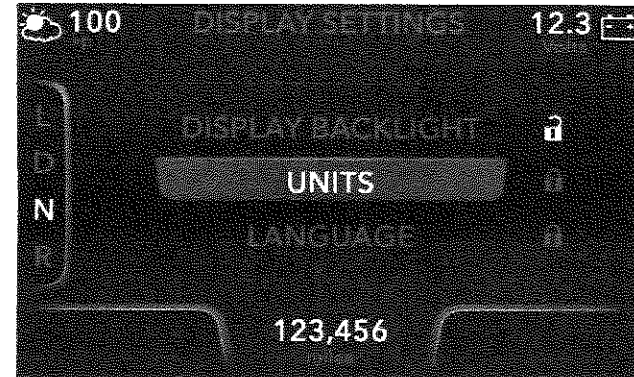
UNITS



0000405161

Figure 12. Manual Backlight

**NOTE:** The factory setting for instrument cluster backlight is the Auto setting.



0000405165

Figure 13. Display Settings

The Units option adjusts the units of measurement between English and Metric.



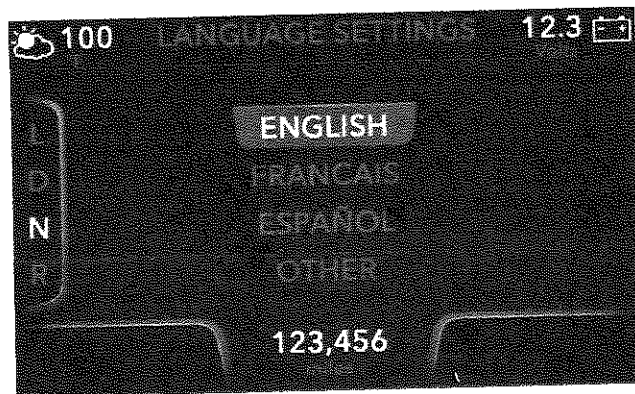
0000405167

Figure 14. Units Settings

The English option will adjust all units into the standard units used in the United States of America (miles / gallons / Fahrenheit). The Metric option will adjust all of the units into kilometers / liters / Celsius.

### LANGUAGE

The Language option allows the operator to choose what language the Premium Electronic Gauge Cluster screen will be displayed in. The default language is English. The other languages offered are French, Spanish, and an Other option for any additional programmed languages.

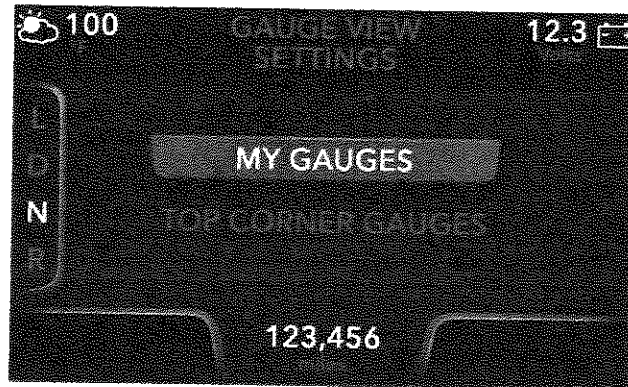


0000405181

Figure 15. Language Settings

## Gauge View Settings

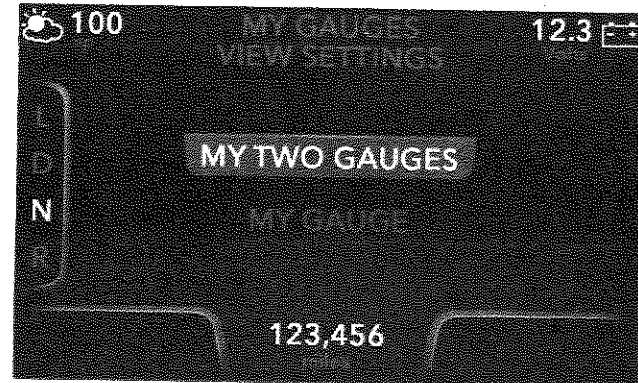
The Gauge View Settings option is where the operator can either set up the gauges displayed in the My Gauges subcategory or set up what information is displayed in the top corners of the cluster display screen.



0000405193

Figure 16. Gauge View Settings

## My Gauges Setup



0000405215

Figure 17. My Gauges View Settings

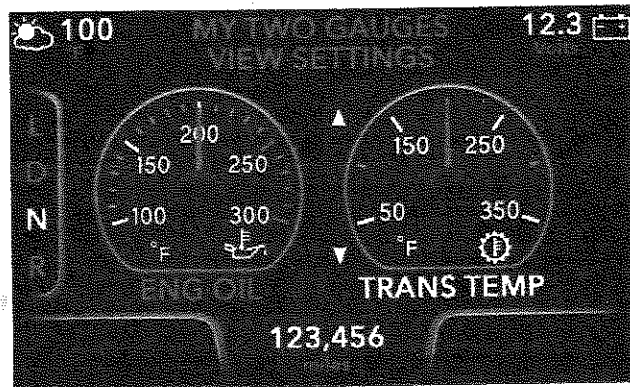
To program the gauges in the My Gauges subcategory, perform the following process:

1. Highlight the Settings category in the main menu.
2. Use the CDC joystick to scroll down and highlight the Gauge View Settings category, and press OK.
3. Highlight the My Gauges category, and press OK.
4. Choose between My Two Gauges and My Gauge.
5. Scroll up or down through the gauge options and choose the desired gauges.

## Display and Gauge Settings

6. To select the desired gauge, leave it highlighted and select the other gauge.
7. Once the desired gauges are highlighted on both sides, press OK to save them.
8. The My Gauge is set up in the same manner.

Upon setup of the selected gauges, the operator can go back to the My Gauges subcategory in the Gauges option of the main menu and confirm that the gauges are correct.



0000405195

Figure 18. My Two Gauges View Settings

### Top Corner Gauge Setup

The left and right top corner gauges are displayed when the main menu is not being utilized.

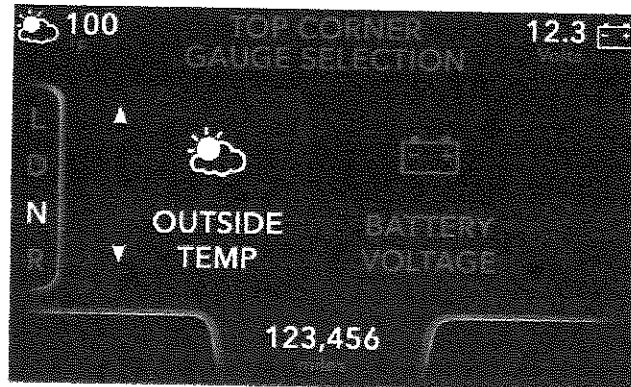
**NOTE: The Top Corner Gauges may vary depending upon the vehicle model and the options chosen at time of purchase.**

The top corner gauges give information on the following:

- Outside Temperature (Standard)
- Battery Voltage (Standard)
- Engine Oil Temperature (Optional)
- Boost Pressure (Optional)
- Fuel Range (Optional)
- Front Rear Axle Temperature (Optional)
- Rear Rear Axle Temperature (Optional)
- Transmission Temperature (Optional)
- Air App Pressure (Optional)
- DEF Range (Optional)
- Axle 1 Pressure (Optional)
- Axle 2 Pressure (Optional)
- Tire Pressure (Optional)

To program the top corner gauges, perform the following process:

1. Highlight the top corner gauges option and press OK.
2. To select the gauges, push the CDC joystick up or down to scroll through the gauge options until the desired gauge is highlighted.
3. Press the CDC joystick to the right to set up the second gauge, and scroll through the gauges until the desired option is reached.
4. To set the gauges, press OK.
5. This will set the highlighted choices as the top corner gauges.

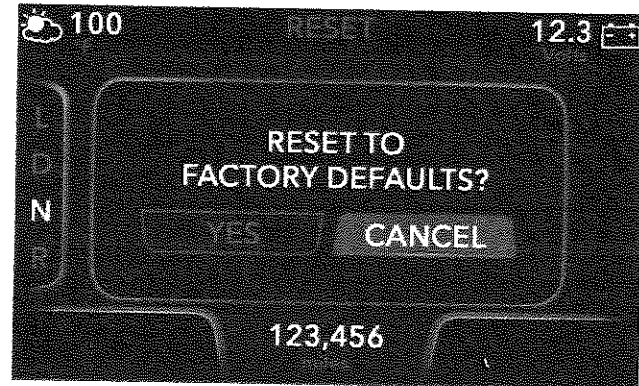


0000405237

Figure 19. Top Gauge Selection

### Reset

The reset function will return all of the features of the cluster display to the factory settings. If this option is selected, a pop-up will appear asking to confirm the reset to default settings. From there the operator can choose to accept the reset by pressing YES or cancel the reset by pressing CANCEL.



0000405291

Figure 20. Reset Screen



## SECTION 8 — ADVANCED DRIVER ASSIST SYSTEM

### Overview

The Adaptive Cruise Control System enables the vehicle to keep a constant speed without the driver's foot on the accelerator; the system can also change vehicle speed based upon objects ahead of the vehicle. This system is comprised of the Collision Mitigation System (CMS) and Adaptive Cruise Control (ACC). The CMS is a system that can slow down the truck in an attempt to avoid collisions; this works while the vehicle is in cruise control mode as well as when the driver is operating the accelerator. The ACC will monitor the operator's truck speed as well as vehicles ahead. The ACC utilizes the CMS in order to slow the truck in conditions that warrant speed reductions.

Advanced Driver Assist Systems include: **Bendix® Wingman® Fusion™ system**, **Bendix® Wingman® Advanced™ Collision Warning System**, and **Meritor Wabco® OnGuard™ Collision Safety System**. For more information on these systems refer to the appropriate Operation and Maintenance Manual.

### Bendix® Wingman® Fusion™ Radar Screens



0000405303

Figure 21. Dynamic Radar Screen

The radar sensor at the front of the vehicle must be properly calibrated to ensure proper operation of the Driver Assist System. If the sensor is out of the acceptable range, it may need to be adjusted or serviced.

## Advanced Driver Assist System

---

To view the Bendix Wingman Fusion Adaptive Cruise Control radar screens, perform the following process:

1. Scroll right in the main menu until the ACC category is highlighted.
2. The subcategories, Radar Learned Alignment and Dynamic Radar Alignment Units will be available. To choose either of these options, make sure the subcategory is highlighted and press OK.
3. To reset the radar alignment, press and hold the OK button until the confirmation message appears.
4. To highlight the YES option, press right on the CDC joystick and press OK.
5. To scroll through the dynamic radar screens, press left or right on the CDC joystick.

For more information on the Bendix Wingman Fusion system, see the Bendix Wingman Advanced Collision Warning System's Driver Instruction Manual.

### Adaptive Cruise Display

The Adaptive Cruise Control (ACC) display is located in the bottom right of the display screen. This feature aids in the safety of the operator. Utilizing sensors in the front of the vehicle, this system will alert the operator of vehicles ahead and how fast they are traveling. Alerts will pop up if the operator's vehicle is getting too close to the vehicle ahead. When the vehicle is too close to the vehicle ahead, the CMS will activate to slow down the truck to avoid collision.



### WARNING

To prevent property damage, personal injury, and / or death, do not rely on the CMS system to slow the vehicle. Operator intervention should occur prior to the activation of the collision mitigation system.

### VIEWER LAYOUT

The CMS and ACC viewer at the bottom right side of the screen display the following information from left to right:


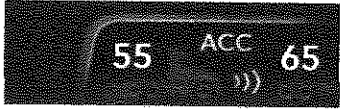

1. ACC Set Speed (mph or km/h)
2. ACC Status
3. Target Vehicle's Speed (mph or km/h)




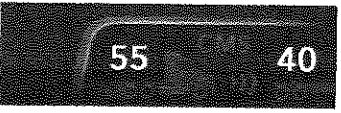
The ACC set speed is the speed at which your vehicle is set. The ACC status is the indicator for how close the vehicle ahead is. The Target Vehicle's Speed is the speed reading for the vehicle in front of you. The different colors of the ACC status represent driver intervention points. The colors represent the following:

- GREEN = Safe distance
- YELLOW = Vehicle is getting too close; driver intervention suggested
- RED = Vehicle is too close; driver intervention required

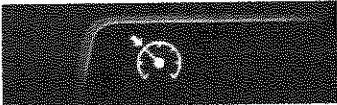
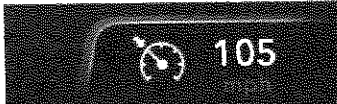
**ADAPTIVE CRUISE CONTROL STATUS (ACC STATUS)**

The ACC Status is a safety indicator that informs the operator of vehicles in front of the truck. ACC Status screens can be viewed in the following table:

ACC Indicator	Screen	Description
Cruise or ACC / CMS is OFF	Image Not Shown	The cruise control section will be blank due to inactive cruise control.
ACC is Set But is Not Tracking a Forward Vehicle		There is no vehicle detected ahead.
ACC Vehicle Distance is OK		The ACC is active and the vehicle ahead is at a safe distance.
ACC Vehicle Distance is Getting Too Close		The ACC is active and the vehicle ahead is beginning to get too close.

ACC Indicator	Screen	Description
ACC Vehicle Distance is Too Close		The ACC is active and the vehicle ahead is too close; the operator should take action by pressing on the brakes to avoid collision.
CMS Active		The CMS is active and the distance of the vehicle ahead is OK.
CMS Vehicle is Getting Too Close		The CMS system is active and the vehicle ahead is getting too close; driver intervention is suggested.
CMS Vehicle is Too Close		The CMS is active and the vehicle ahead is too close; the CMS is actively braking to avoid collision.

## Advanced Driver Assist System

ACC Indicator	Screen	Description
Cruise Enabled	 <small>025004053110</small>	The cruise control is ON (optional).
Cruise Enabled, Speed is Set	 <small>025004053112</small>	The cruise control is ON and vehicle speed is set (optional).

### WARNING

To prevent property damage, personal injury, and / or death, always be aware of the ACC and CMS system statuses to avoid possible collisions.

## Setup

### WARNING

To prevent property damage, personal injury, and / or death, do not use the cruise control system when unpredictable driving conditions are present. Such conditions include: heavy traffic, roads that are winding, icy, snow covered, slippery, or with a loose surface. These conditions may cause wheel slippage and loss of vehicle control.

The following set of instructions covers the use of the cruise control system:

1. Press the ON position of the ON / OFF steering wheel control.
2. Bring the vehicle to the desired operating speed (above 35 mph [56 km/h]), and push the SET / COAST position on the steering wheel control.
3. Once in the cruise mode, press the RESUME / ACCEL switch to increase vehicle speed, or press and hold the SET / COAST to decrease vehicle speed.

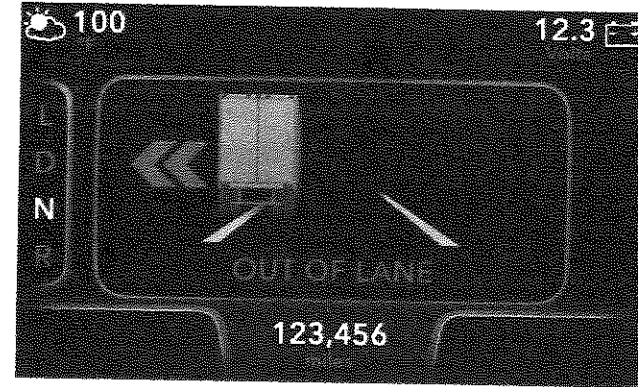
4. Tapping lightly on the brake or clutch pedal will deactivate the cruise control but hold the selected speed in memory. To return to the preselected speed, press the RESUME / ACCEL switch.
5. To cancel a selected speed setting, press the OFF position. Turning the ignition switch OFF will also cancel the speed setting. Both actions will remove the speed setting from memory.

### Lane Departure System



To prevent property damage, personal injury, and / or death, avoid disabling the lane departure system.

The lane departure system is a safety feature designed to alert the operator when the vehicle starts to veer into a different lane. When the vehicle starts to cross visible lane markings without the turn signal engaged, the music will fade out and an audible alert will come through the vehicle's speakers to inform the driver that they are drifting out of the lane. This system also has a feature that recognizes the speed limit and alerts the driver when the vehicle is in excess of the speed limit.



0000405440

Figure 22. Lane Departure

## SECTION 9 — VEHICLE TELEMATICS

### Telematics Module Overview (If Equipped)

The vehicle telematics module allows the dealer and user to obtain information and update vehicle systems over the air. For more information on the telematics module; refer to the appropriate Operation and Maintenance Manual.

### Telematics Messages

The vehicle telematics module (if equipped) displays messages to the operator using the electronic gauge cluster. These cluster messages may require driver confirmation. Messages can be confirmed by pushing the OK button on the cluster display control. Refer to the following example of a common telematics module message. For more information about telematics module cluster messages, please refer to [www.internationaltrucks.com/support/oncommand-connection](http://www.internationaltrucks.com/support/oncommand-connection).

**NOTE:** The following image identifies a typical vehicle telematics cluster message layout.



0000450822

Figure 23. Vehicle Telematics Message

## SECTION 10 — PTO TRIP SCREENS

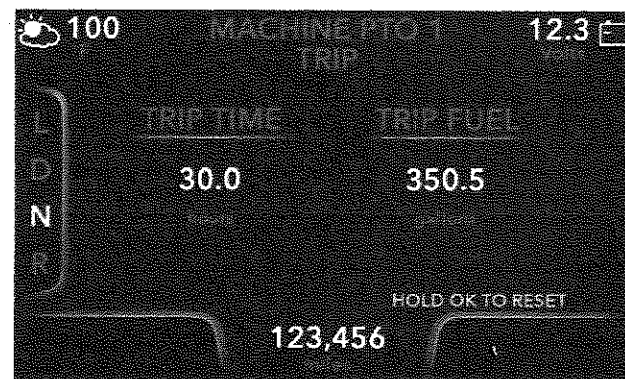
### PTO Overview

The Power Take-Off (PTO) screens provide the operator with a trip counter for the Power Take-Off unit. These trip counters keep track of how much fuel is being used and how long the PTO is being run. There are screens for machine PTO and screens for engine PTO. The following is information provided by the PTO screens:

- PTO trip time
- PTO fuel
- PTO total time
- PTO total fuel used

### PTO Time and Fuel

The first PTO trip screen shows the trip time and trip fuel. The PTO trip time keeps track of how many hours the PTO has been running. The PTO fuel indicates how many gallons are in the PTO fuel tank.



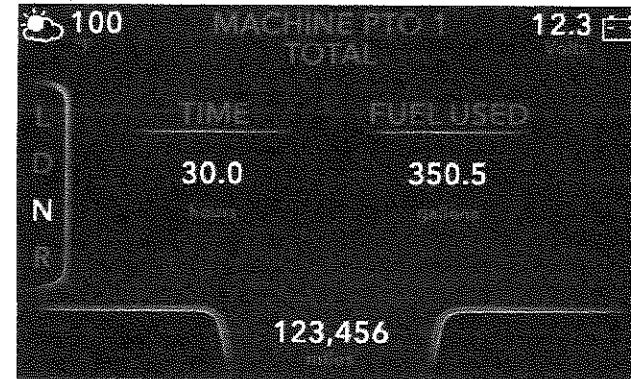
0000405324

Figure 24. Machine PTO Trip Screen

### Total PTO Time and Fuel

The Total PTO time and fuel screens indicate the total amount of time and fuel used by the unit.

The PTO trip counters work the same way that the vehicle trip counters work. To reset the counters, press and hold the OK button for 3 seconds or until the confirmation pop-up appears.



0000405325

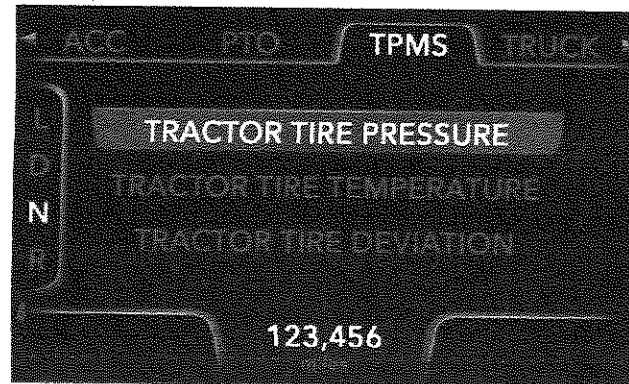
Figure 25. Machine PTO Trip Total Screen



## SECTION 11 — TPMS DISPLAY (OPTIONAL)

### Overview

The purpose of the Tire Pressure Monitoring System (TPMS) is to keep track of the tire pressures, temperatures, and deviations in each tires on the tractor portion of the vehicle. The TPMS can be displayed in PSI (pounds per square inch) or kPa (kilopascals). In order for the information to be displayed, the vehicle may require driving for a few minutes.

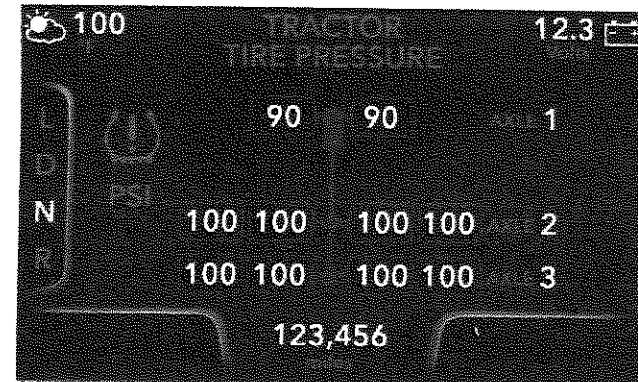


0000405330

Figure 26. TPMS Menu

### Tire Pressure

The TPMS displays a reading for the tire pressure in each of the tires in the tractor of the truck. If the pressure falls below a certain threshold, then a caution alert will come up notifying the operator of the under pressured or the deflated tire.

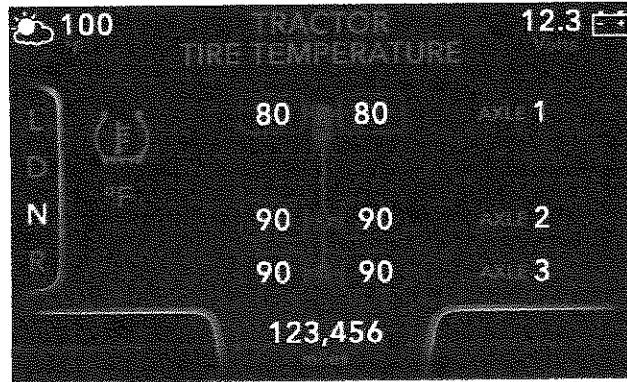


0000405332

Figure 27. Tractor Tire Pressure

## Tire Temperature

The tire temperature displays individual tire temperatures on the tractor.

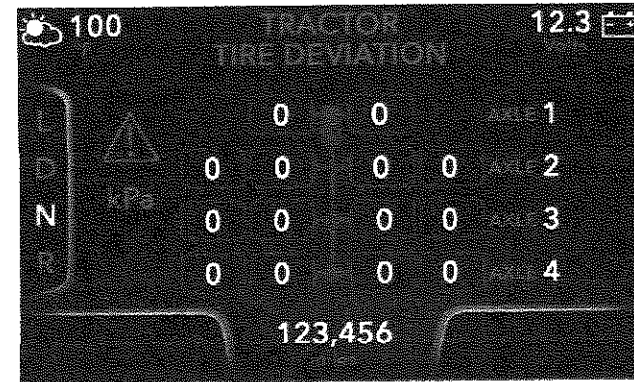


0000405336

Figure 28. Tractor Tire Temperature

## Deviation

The tire deviation screen displays the decreased air pressure in the tire(s).



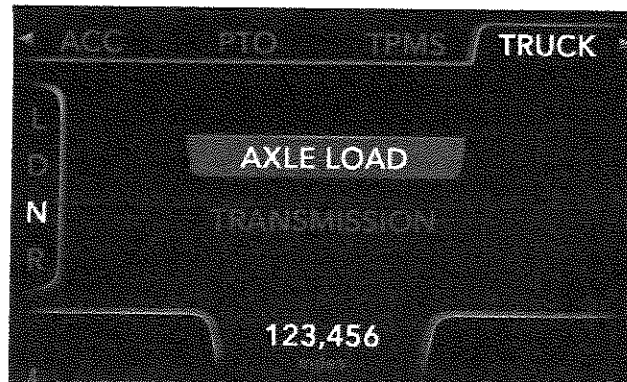
0000405341

Figure 29. Tractor Tire Deviation

## SECTION 12 — TRUCK INFORMATION (OPTIONAL)

### Overview

The truck information section displays axle load and transmission service information. This information can be utilized to determine how much weight is on the axles and when the transmission needs regular maintenance.

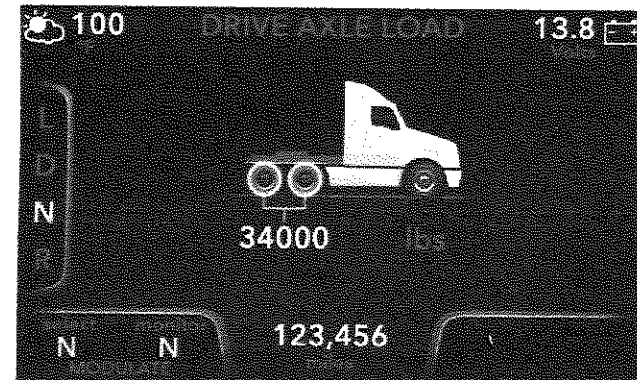


0000405342

Figure 30. Truck Information Menu

### Axle Load

The Axle Load option allows the operator to view how much weight is on each of the rear axles. The screen displays a reading for the weight on an individual axle or the total weight on both axles.



0000413597

Figure 31. Axle Load

## Truck Information (Optional)

### Transmission

The Transmission subcategory contains information for transmission service.

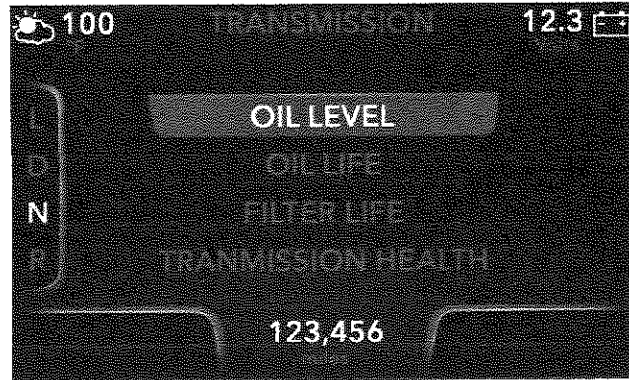


Figure 32. Transmission Menu

This service information includes:

- Oil Level
- Oil Life
- Filter Life
- Transmission Health

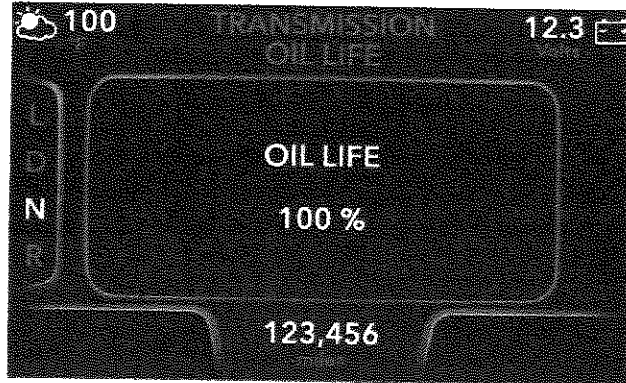
The Oil Level option provides a reading on transmission fluid level.



Figure 33. Transmission Oil Level

The Oil Life option provides a reading on the quality of the oil as a percentage (%); a fresh fluid change will show as 100%.

The Oil Filter Life option provides information on the condition of the transmission oil filter.



0000405419

Figure 34. Oil Life



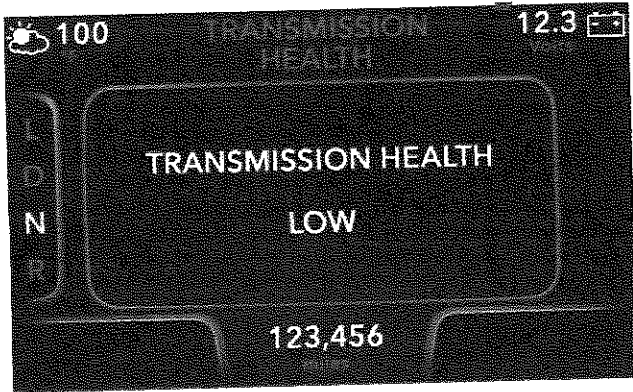
0000405422

Figure 35. Oil Filter

## Truck Information (Optional)

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The Transmission Health option relays information on the service condition of the transmission.



0000405426

Figure 36. Transmission Health

## SECTION 13 — TRANSMISSION DISPLAY

### Overview

The Transmission information is located in bottom left of the screen. The Transmission information in this location will pertain to the type of transmission selected at the time of order. This information includes:

- Gear information
- Service indicators
- Transmission messages

### Allison

The information for the Allison® Transmission will appear in the lower left corner of the screen where the transmission information is located. The main types of information given in this section of the screen are the Selected gear, the Monitored gear, and the Mode of the transmission. If there should be a problem concerning the transmission, an alert message will pop up in this location of the cluster display.

The list of common transmission messages includes:

- Trans Oil OK
- Trans Oil # of Quarts Low
- Trans Oil # of Quarts High

- Settling Time
- Engine RPM Too Low
- Engine RPM Too High
- Must Be In Neutral
- Oil Temp Too Low
- Oil Temp Too High
- Vehicle Speed Too High
- Sensor Error
- Oil Life \_\_ %
- Oil Filters OK
- Trans Health Low
- ##### Inactive
- ##### Active

### Eaton

The Eaton® Transmission information is located in the bottom left of the viewer screen. For more information see the Eaton® Transmission Operation and Maintenance manual.

## SECTION 14 — FAVORITES SCREENS

### Overview

The Favorites screens are informational screens that are frequently used. These screens are part of the home screen; in order to scroll through them, press the BACK button. Keep hitting the BACK button to pull up the different Favorites screens.

### Screens

The Favorites screen options are as follows:

- Speedometer
- Miles Till Empty
- Fuel Economy
- My Gauges



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