

OD
1025-01



Software Specification Document

P1.0

We continually strive to bring you the highest quality, full-featured products. As a result, you may find that your actual display screens may be slightly different than what was represented in this manual at the time of printing.

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Product Information for the OD1025-01 display

The OD1025-01 displays are designed for instrumentation and control on electronically controlled engines communicating via SAE J1939. The multimedia display enables operators to view many different engine, Bluetooth, maps and accessory parameters.

Care and Maintenance

General maintenance is not required; however, a soft cloth can be used for cleaning the unit. Window cleaner or alcohol can also be used to clean the glass portion of the display. Do not use harsh or abrasive cleaners on the unit.

FCC/ISED Statements

This product complies with the US RF exposure limit set forth for an uncontrolled environment and is safe for intended operation when used at a distance of 21cm or greater.

This product complies with the Canada portable RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. The minimum separation distance for use is limited to 21cm or greater.

This device complies with Part 15 of FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

This device complies with ISED Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

French:

Le produit est conforme à la limite d'exposition aux RF portative au Canada établie pour un environnement non contrôlé et est sans danger pour le fonctionnement prévu, tel que décrit dans le présent manuel. La distance de séparation minimale pour l'utilisation est limitée à 21 cm ou plus.

Cet appareil est conforme à la partie 15 des règles de la FCC et aux normes RSS d'Industrie Canada exemptes de licence. Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif peut ne pas causer d'interférence, et (2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer le fonctionnement indésirable de cet appareil.

Cet appareil est conforme aux normes RSS d'ISD Canada exemptes de licence. Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas causer de


brouillage, et (2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un fonctionnement indésirable de l'appareil.

L'exploitation dans la bande 5150-5250 MHz est uniquement destinée à une utilisation à l'intérieur afin de réduire le risque de brouillage préjudiciable aux systèmes mobiles à satellites co-canal.

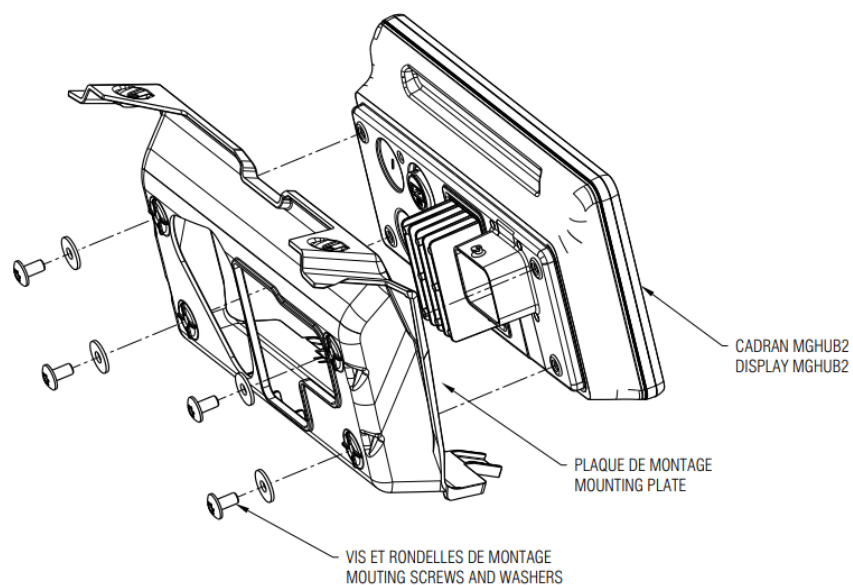
Regulatory Certification Information

Regulatory certification information is located within the Settings menu this device. See Technical Addendum for copies of the current Regulatory Certificates.

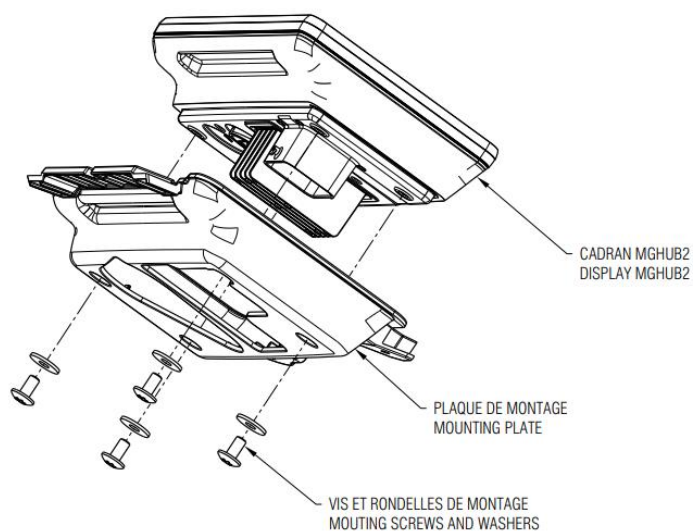
Specification / Electrical Ratings Labeling

	Refer to text in the accompanying documents.
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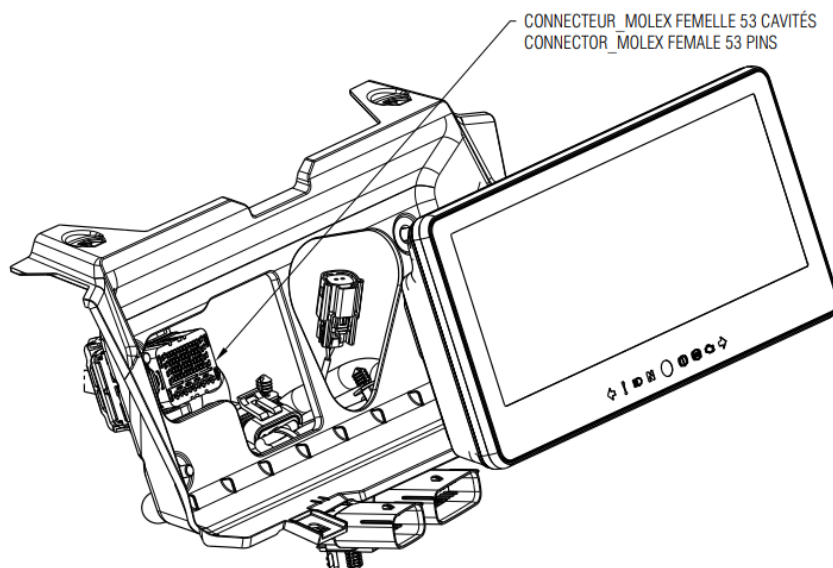
Installation Diagrams



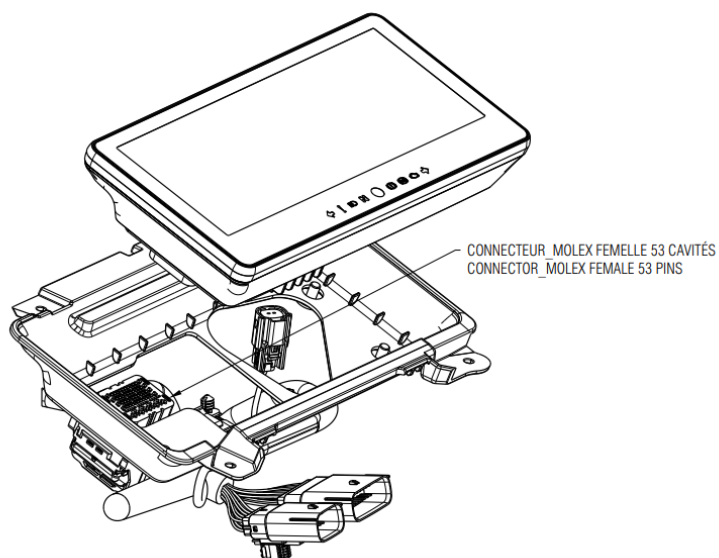
RED T INTERFACE MÉCANIQUE / MECHANICAL INTERFACE



RED DS INTERFACE MÉCANIQUE / MECHANICAL INTERFACE



RED T INTERFACE ÉLECTRIQUE / ELECTRICAL INTERFACE



RED DS INTERFACE ÉLECTRIQUE / ELECTRICAL INTERFACE

Graphical Disclaimer

Due to the varying model components along with the timing of the printing of this manual, some details may vary slightly from those depicted.

Disclaimer Upon Startup

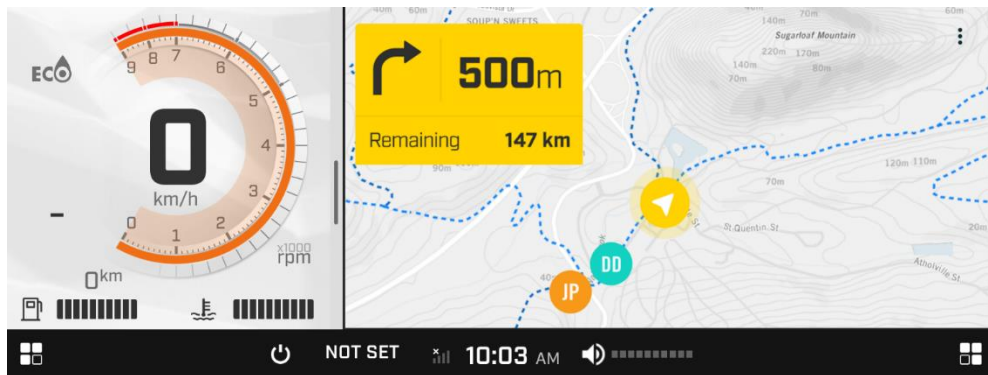
Upon powering the Vehicle, the following disclaimer will appear.

Legal Notice

*Improper vehicle use can result in SEVERE INJURY OR DEATH.
Get familiar with this vehicle; it may exceed the performance of other
vehicles you may have ridden in the past.*

*This is a high-performance vehicle for off road use only. Inexperienced
riders may overlook risks and be surprised by the specific behavior of this
vehicle in any terrain condition.*

Touch Confirm to be taken to the Home screen:

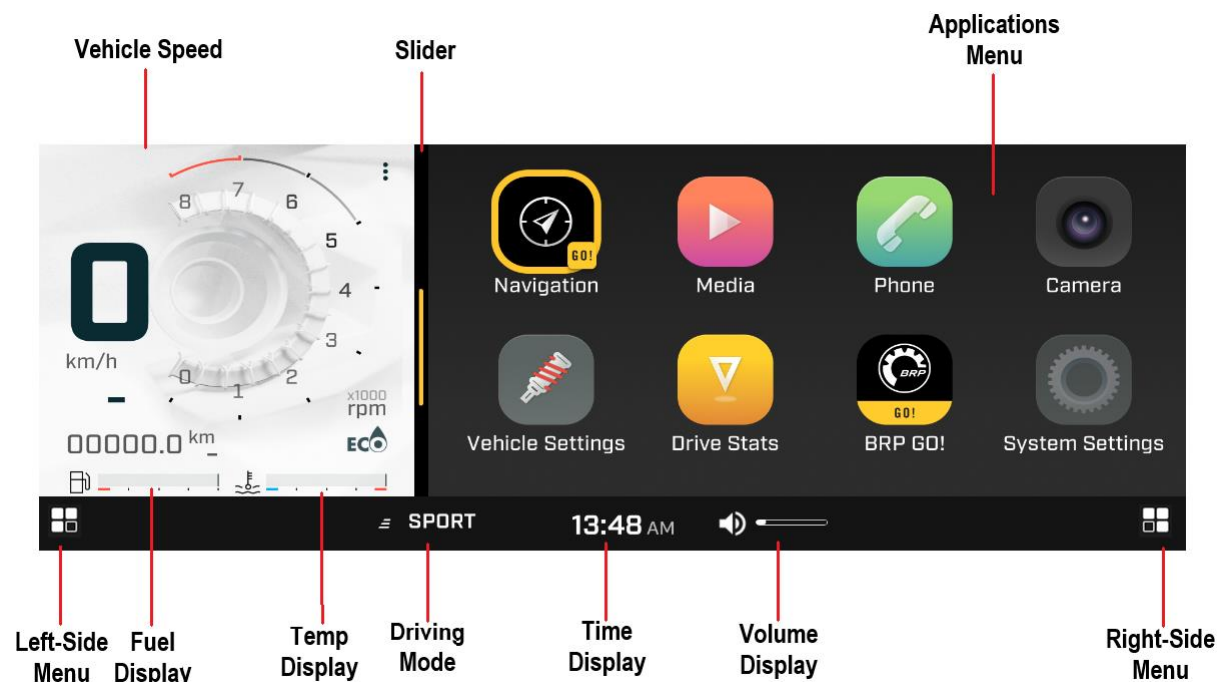


Basic Navigation Features

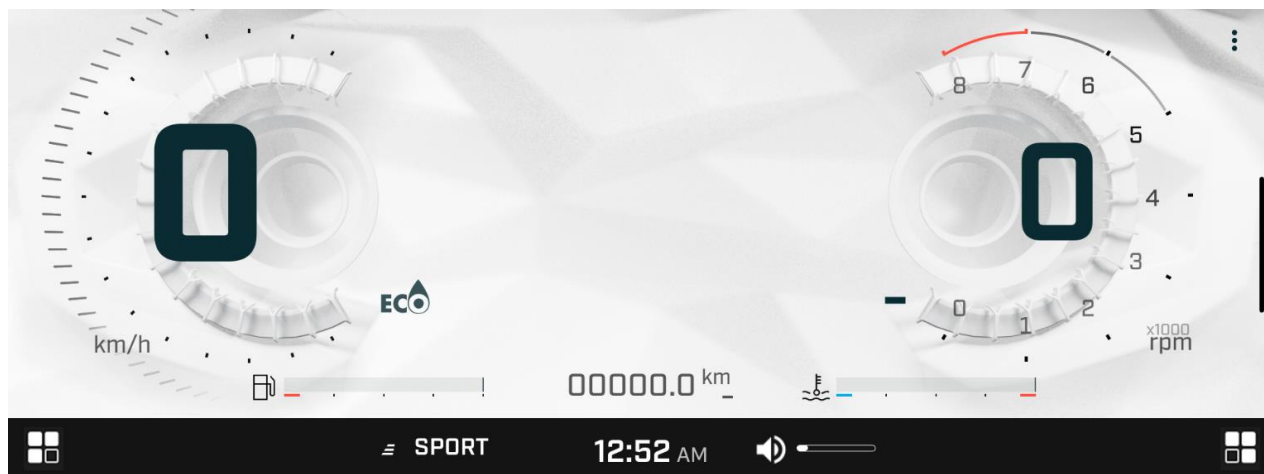
Home Screen / Touch Commands for the OD1025-01

The display is controlled by touch commands and offers the ability to monitor the vehicle's gauges in full-screen or 1/3-screen viewing modes. To switch between full-screen and 1/3-screen viewing, move the Slider to or from the right edge of the display. Use the images below to orient yourself to the display's home screen configurations.

1/3-Screen Viewing Mode



Full-Screen Viewing Mode



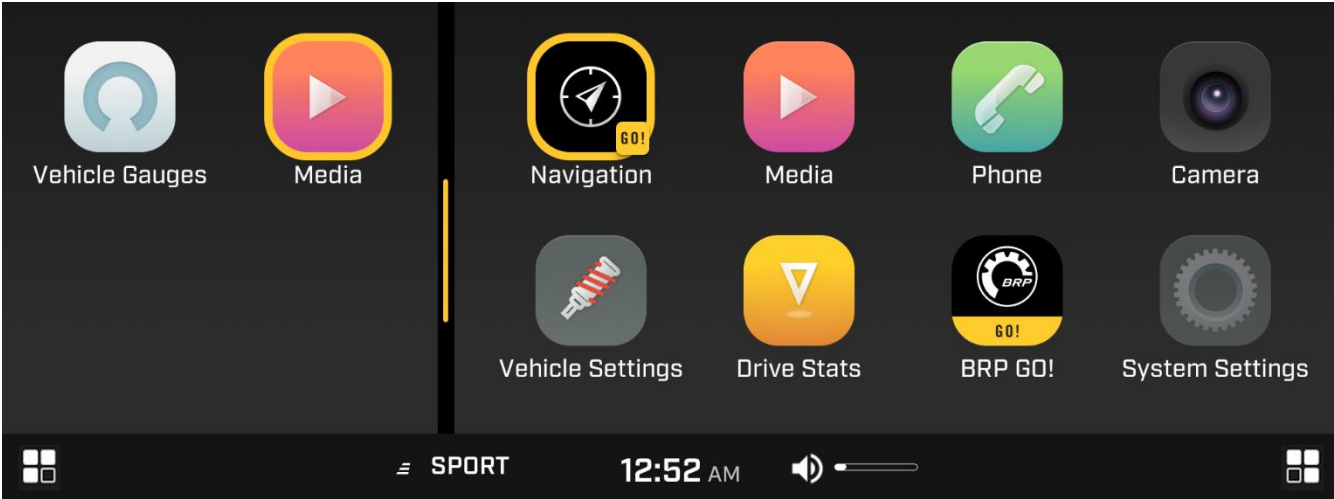
The display provides independent functions on both sides. To select an application, touch the Left-Side Menu






or the Right-Side Menu.










The respective applications available for each side will appear. The image below shows both opened menus.



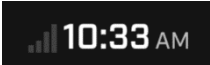
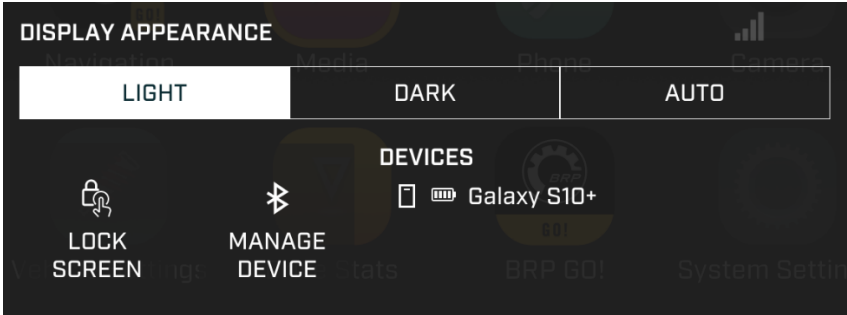

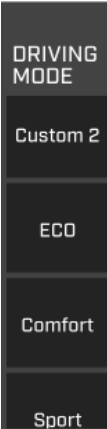



Navigation within the screens is controlled by Touch commands across multiple display components. The components and their descriptions are listed below.

Component	Description
 Left-Side Menu	Displays the applications available for viewing full-screen on the left 1/3 of the display.
 Right-Side Menu	Displays the applications available for viewing on the right 2/3 of the display.
 Vehicle Gauges	Displays the Vehicle and Engine Speeds, Fuel level, Temperature, and Trip Distance.

Continued

Component	Description
 Media	Audio actions such as Rewind, Play, Fast Forward, Repeat and Shuffle can be found here along with the ability to connect a Bluetooth enabled device.
 Navigation	Maps, Tracks, Waypoints and Points of Interest can be found here.
 Phone	Calls and texts, recent calls and contacts can be found here.
 Camera	Depending on the model style, view the landscape in front of and behind the vehicle with up to two cameras.
 System Settings	Provides the ability to change available options for the Audio, Display, Bluetooth, Wi-Fi, Units, Language, Clock, and Update Software.
 Drive Stats	Provides the ability to view customizable Drive Statistics across separate Trips, Totals and Records.
 Vehicle Settings	Provides the ability to view and modify Driving Modes, Diagnostics, Accessories, Cluster Settings and Vehicle Controls.

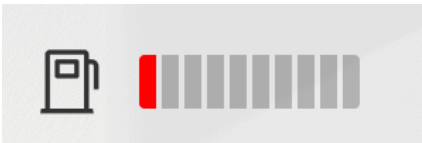
Continued

Component	Description
 <p>Time Display</p>	<p>Displays the current time and paired phone's cellular reception.</p> <p>The sub-menu shown below will appear when the Time Display is touched. From this sub-menu the display appearance can be changed, the screen can be locked, and Bluetooth devices can be managed.</p> 
 <p>Driving Mode</p>	<p>Displays the vehicle's current Driving Mode.</p> <p>The sub-menu shown to the right will appear when the Driving Mode is selected. Choose between Manual, Custom 1, Custom 2, Comfort, ECO, Sport, Rock, Mud, Work, Rally, Normal, Standard, Rock Crawler, Lock, Ski, Sport ART, Soft and Hard.</p> 
 <p>Volume Display</p>	<p>Displays the current audio volume.</p> <p>The Slider shown to the right will appear when the Volume Display is touched. The audio volume can be adjusted by moving the Slider up and down or tapping an area in the column where you want the volume to be.</p> <p>Touching the  symbol will mute and unmute the volume.</p> 

Fuel



The fuel level is graphically displayed on the bottom-left side of the display. When the fuel level is low, the color will change to Red.





Backlight










The meter has a multi-color backlight that is used to illuminate graphics on screen. The backlight intensity by which the screen will be illuminated can be adjusted in the Display Settings menu, and ranges from 0% to 100%.

Tell-tale Indicators

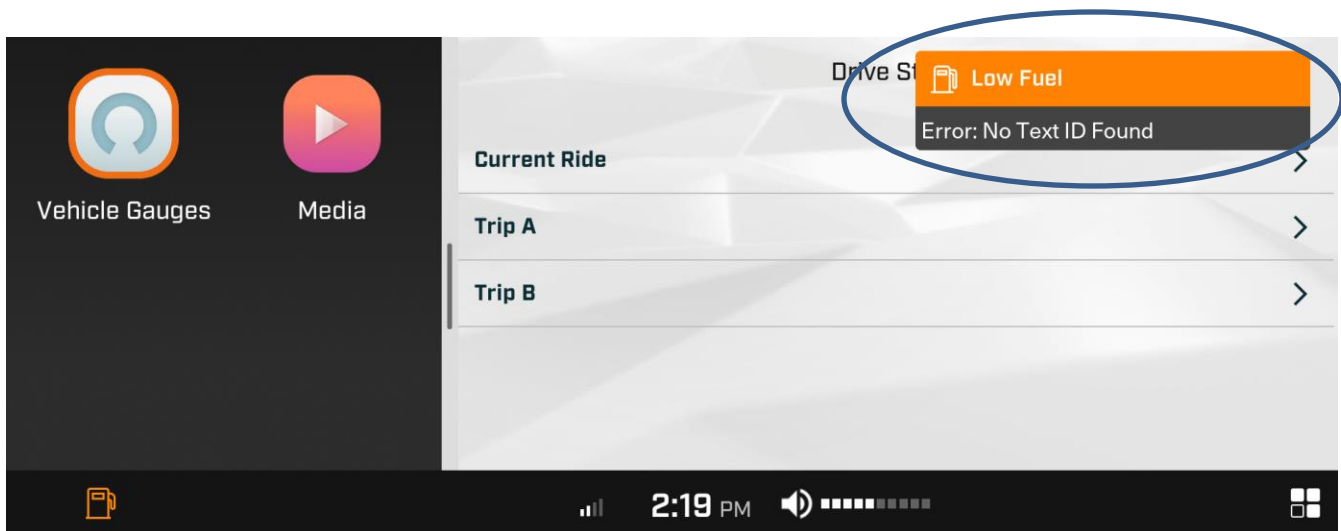
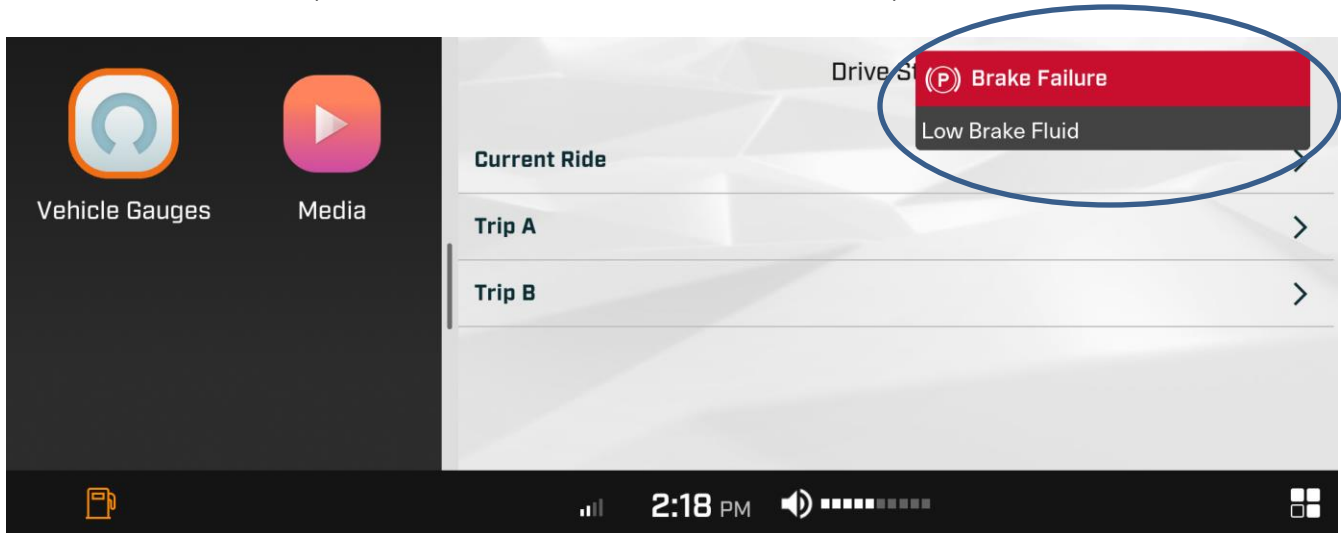
The OD1025-1 communicates information about the vehicle's behavior or malfunction to the operator via the Tell-tale Indicators. The Tell-tale Indicators are positioned along the bottom of the display and illuminate when certain requirements are met. See the table below for more details.

Tell-tale Indicator	Type of Indication
Left/Right Turn Indicators 	Used when turning left or right.
Vehicle Problem 	Illuminated when a vehicle problem occurs (i.e., Vehicle requires service, transmission error, transmission maintenance needed, suspension error, ECM Fault, TCS Off, DPS Fault, Check Smart-Lock, etc.).

Continued

Tell-tale Indicator	Type of Indication
High Beam 	Illuminated when the brightest head lights are in use.
Neutral 	Displays the current gear of the vehicle. Possible gears include the following: Park (P), Reverse (R), Neutral (N), 1, 2, 3, 4, 5, 6 and 7. There are two Transmission Modes: Manual (M) and Automatic (displays nothing). There are also two Sub-Transmission Modes: High (H) and Low (L)
Parking Brake 	Illuminated when the Parking Brake is activated.
ABS 	Illuminated when there is an issue with the Anti-Lock Braking system.
Check Engine 	Illuminated when a component of the engine needs checking.
	Illuminated when a Low Oil Pressure situation occurs.
	Illuminated when a Low Fuel Level is reached.
	Illuminated when a Low Battery Voltage situation occurs.
	Illuminated when a High Engine Temperature situation occurs.

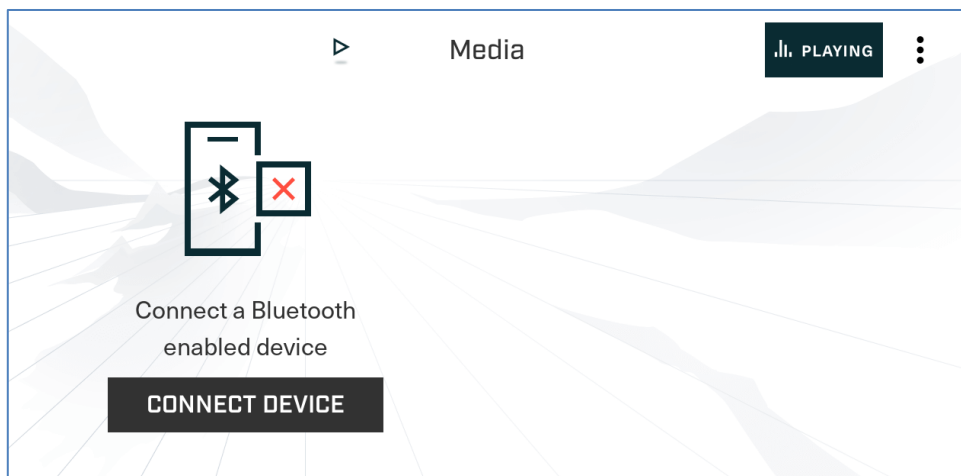
In addition to Tell-tale signs, some errors will display on the upper right corner of the screen (as shown below for these two conditions):



Media

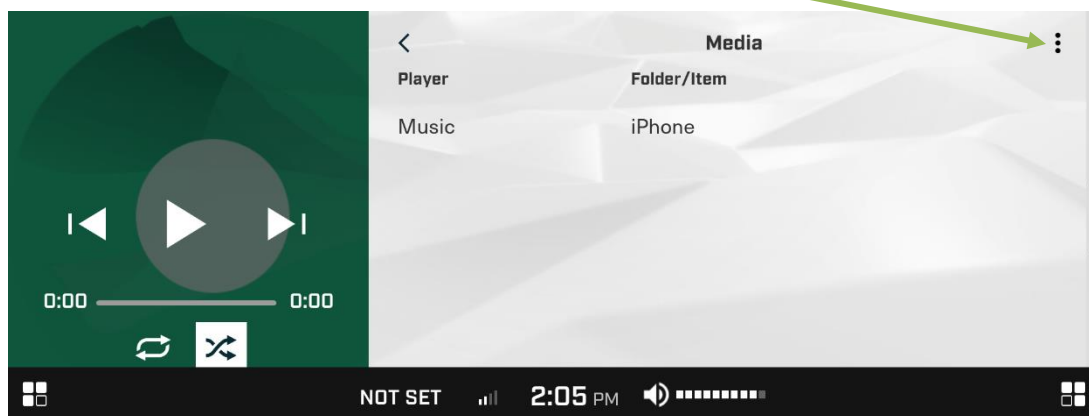


The Media applet allows for music playback from Bluetooth and USB media sources. To utilize Bluetooth capabilities, ensure that a Bluetooth-enabled device is connected to the Interactive Display. If no device is connected, the following screen will appear.

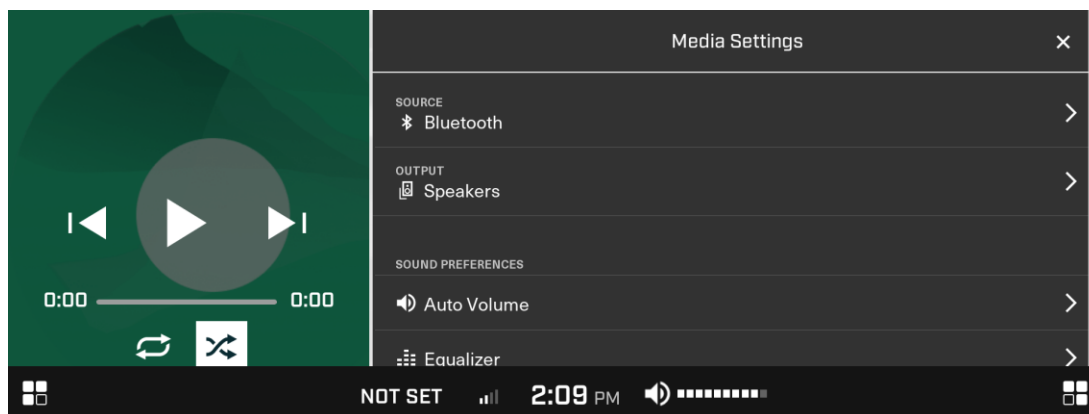


See [Bluetooth Settings](#) for more information on connecting a Bluetooth-enabled device.

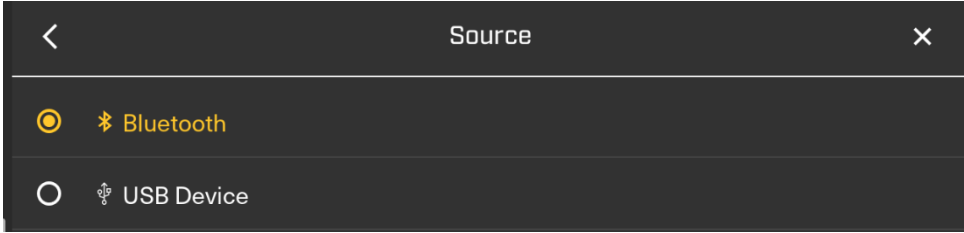
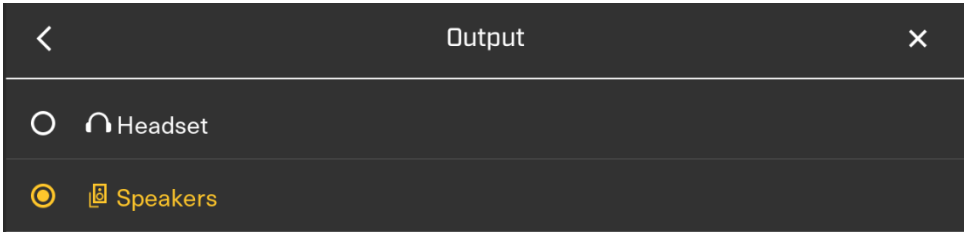
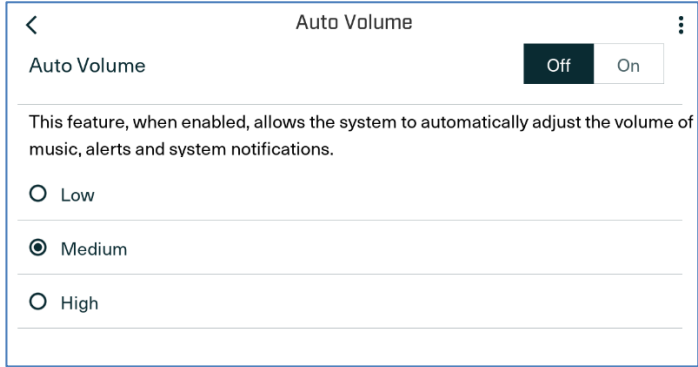
Media Settings allows the user to control and change the current media source, toggle the output between speakers and headsets, and adjust sound preferences. To access Media Settings, touch the three dots in the top right of the Media applet.



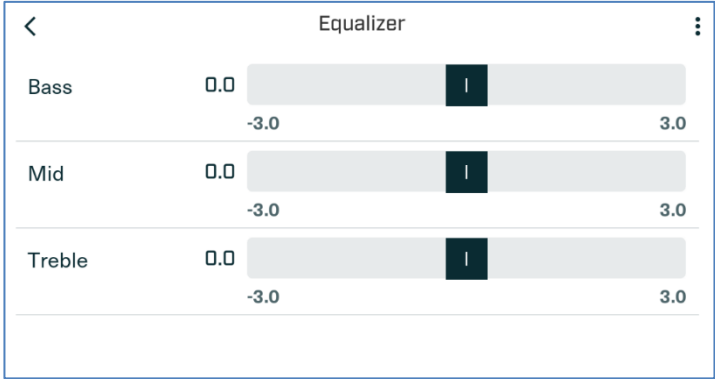
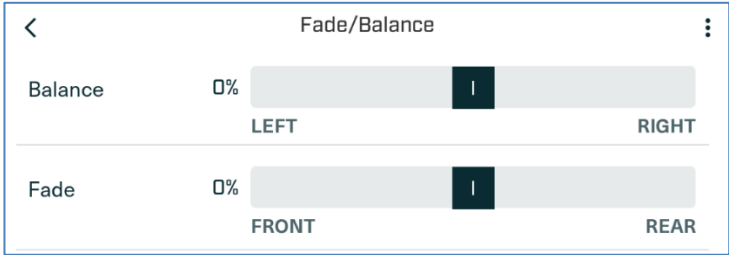
Then scroll through and touch the setting name or the arrow on the right of the menu to be changed.



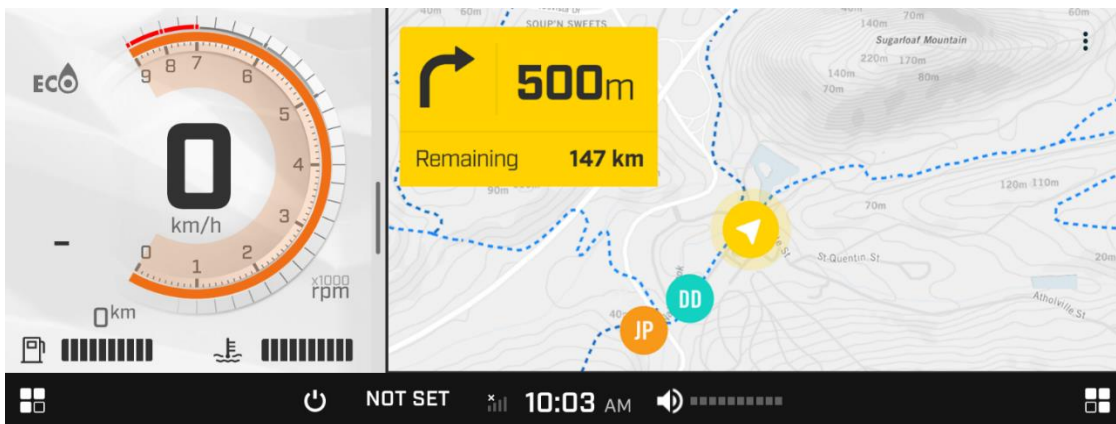
See the table below for more information on Media Settings.

Section	Description
Source	<p>Allows the selection of the audio source (Bluetooth or USB Device).</p> 
Output	<p>Allows the selection of where the sound resides (Headset or Speakers).</p> 
Auto Volume	<p>Allows the selection of automatically adjusted volume settings to compensate for engine or wind noise.</p> 

Continued

Section	Description
Equalizer	<p>Allows the manual adjustment of equalizer settings for bass, mid and treble.</p> 
Fade / Balance	<p>Allows the adjustment of fade and balance output settings.</p> 

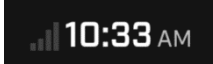
Navigation (BRP Go!)

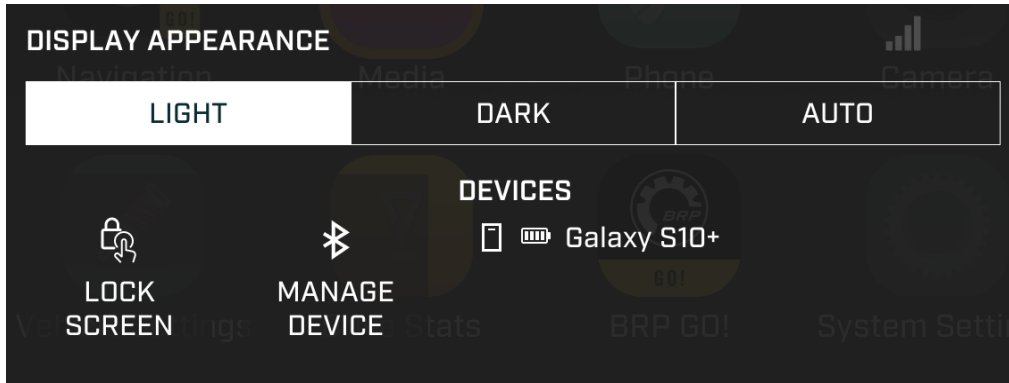


To access maps, select the Nav applet and follow the prompts.

More information to come for this section.

Bluetooth Settings

To connect a Bluetooth enabled device, touch the Time Display  to open the following sub-menu. The Bluetooth menu is also accessible through the Phone and Media applets.



Note:
Previously
connected
devices will
already be
listed:

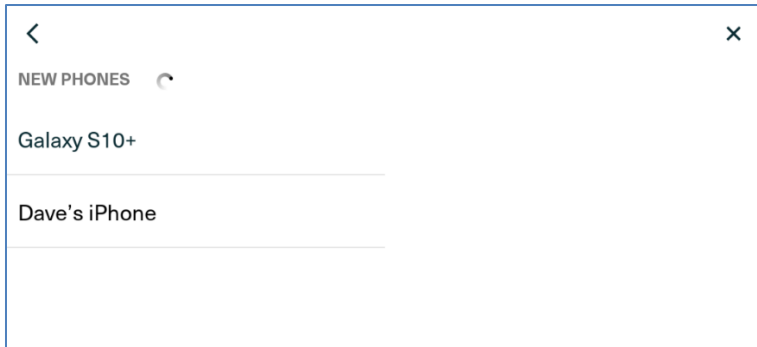
Select Manage Device to open the Bluetooth menu.

Bluetooth		×
☎ Phone	Not Connected	>
🎧 Driver Headset	Not Connected	>
🎧 Passenger Headset	Not Connected	>

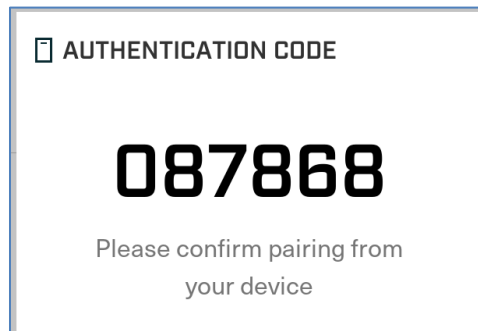
Choose the type of Bluetooth enabled device to connect, then select “Add New Device.”



Ensure that your Bluetooth-enabled device is in pairing mode and select it from the list below.



When connecting a phone, you must verify the Authentication Code and acknowledge the prompts on your mobile device.

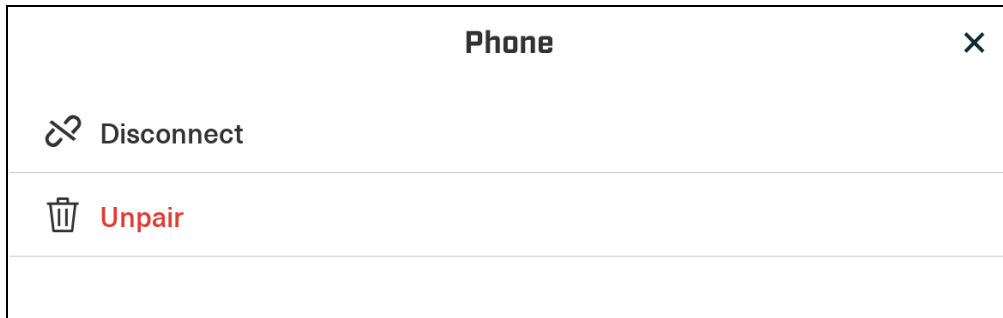


Touch Pair on your mobile device and it will be connected to the display.



To Disconnect and/or Unpair a Device:

Touch the device's name on the list, and the following screen will appear:



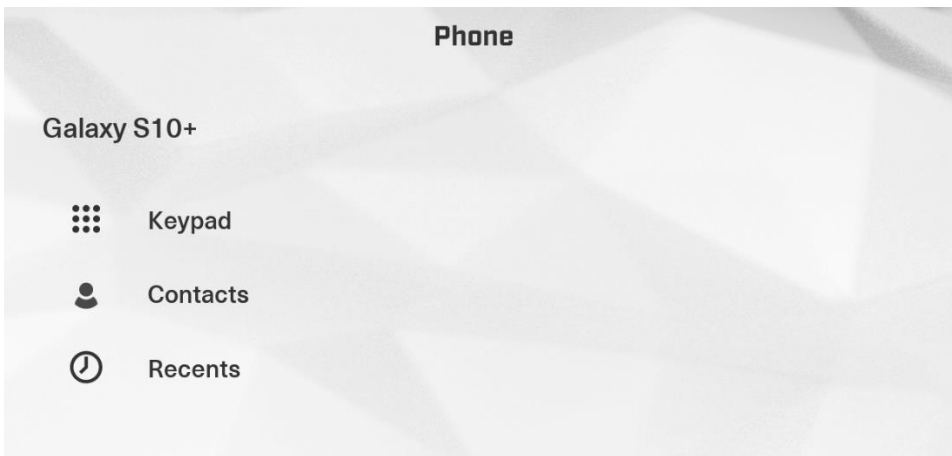
Touching Disconnect will remove the connection to the device but will still leave the device paired in case a future connection is needed.

Touching Unpair will remove the connection and the device's name from the list. These steps will need to be performed again to re-pair and connect should a future connection be needed.

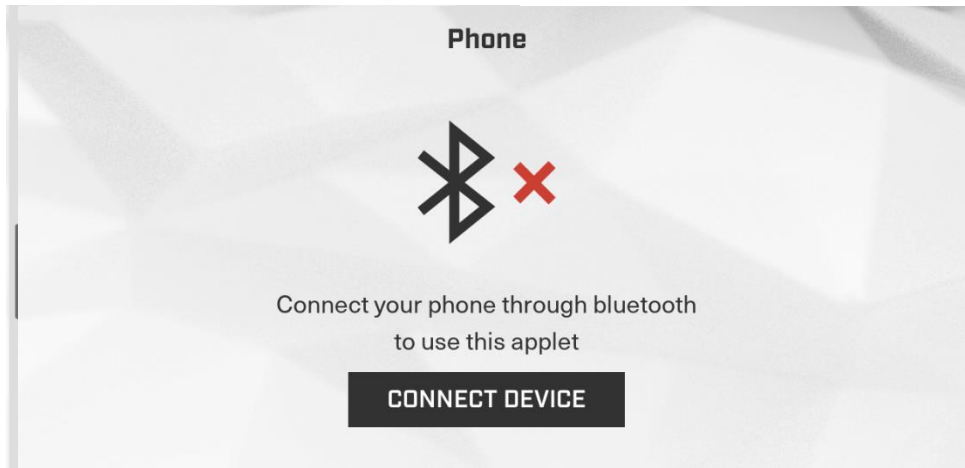
Phone



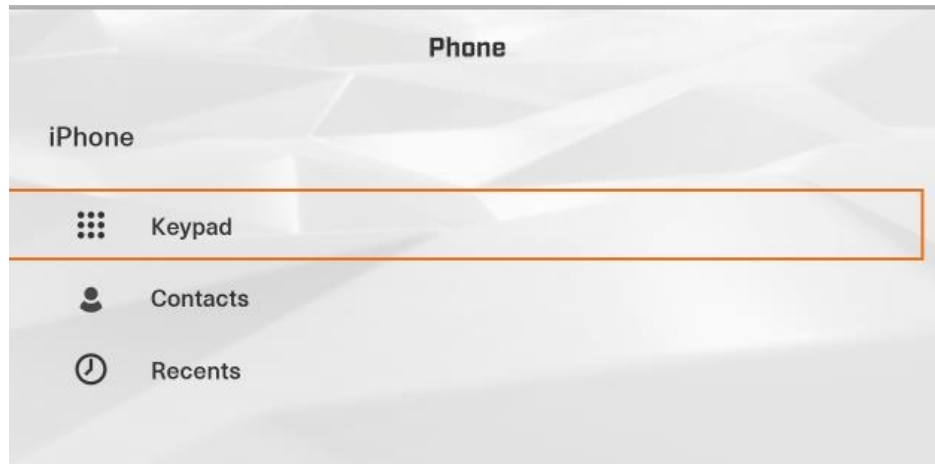
The Phone applet allows users to manage calls, view contacts and access recent call history from the display.



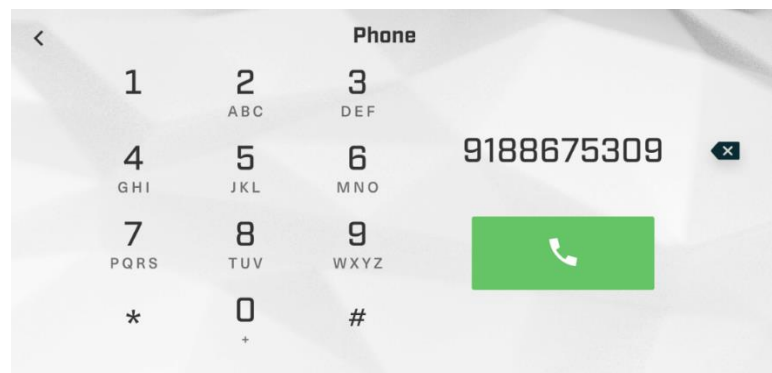
If a Bluetooth enabled device has not been connected, the following screen will be displayed. Connect a device to continue.



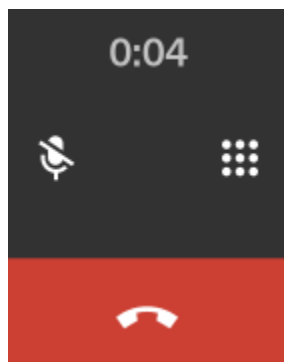
The connected phone's contacts and recent calls can be accessed by touching the appropriate selection:



To make a call, ensure that you have connected a Bluetooth-enabled phone and headset to the Caribou display. Select Keypad and manually enter the number or select from your recent calls or Contacts lists. Touch the green phone button to initiate the call.

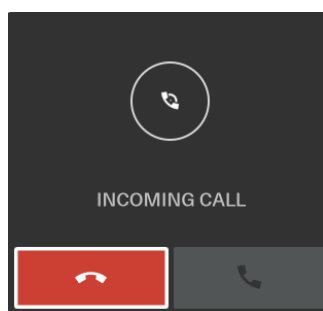


During an active call, the display may appear as:



Without a Headset

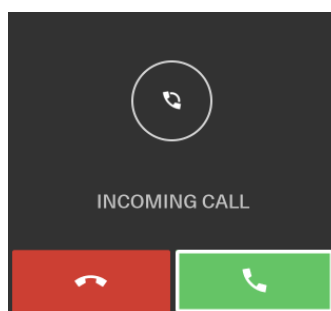
With no connected headset, an incoming call may appear as:



Touch the red phone icon to reject the call, or allow your mobile device to retain the call and/or voicemail information

With a Headset

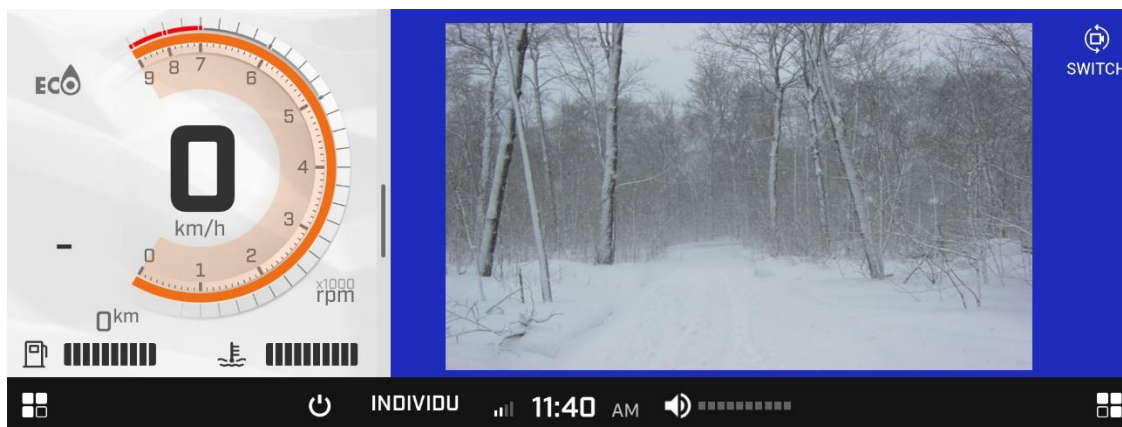
If a headset is connected, an incoming call may appear as:




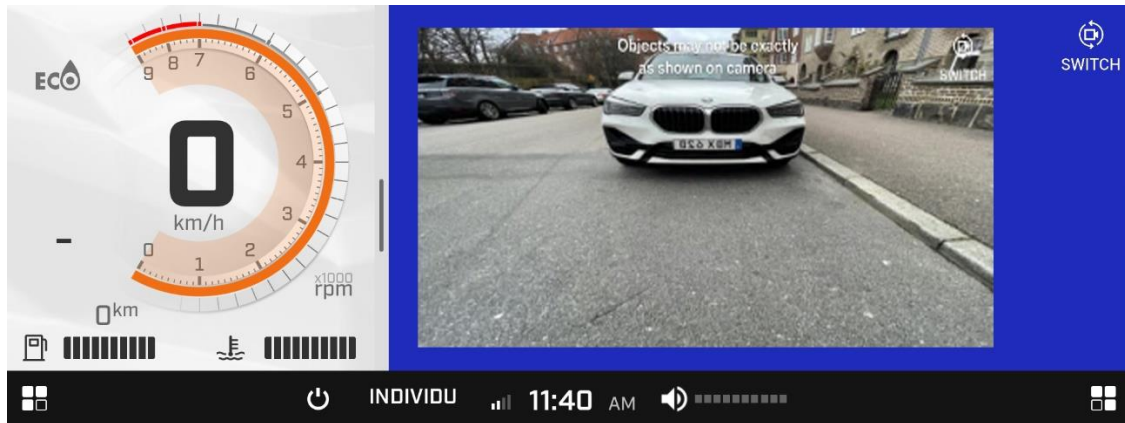
Touch the green phone icon to answer the call through the headset, or the red phone icon to end the call.

Camera

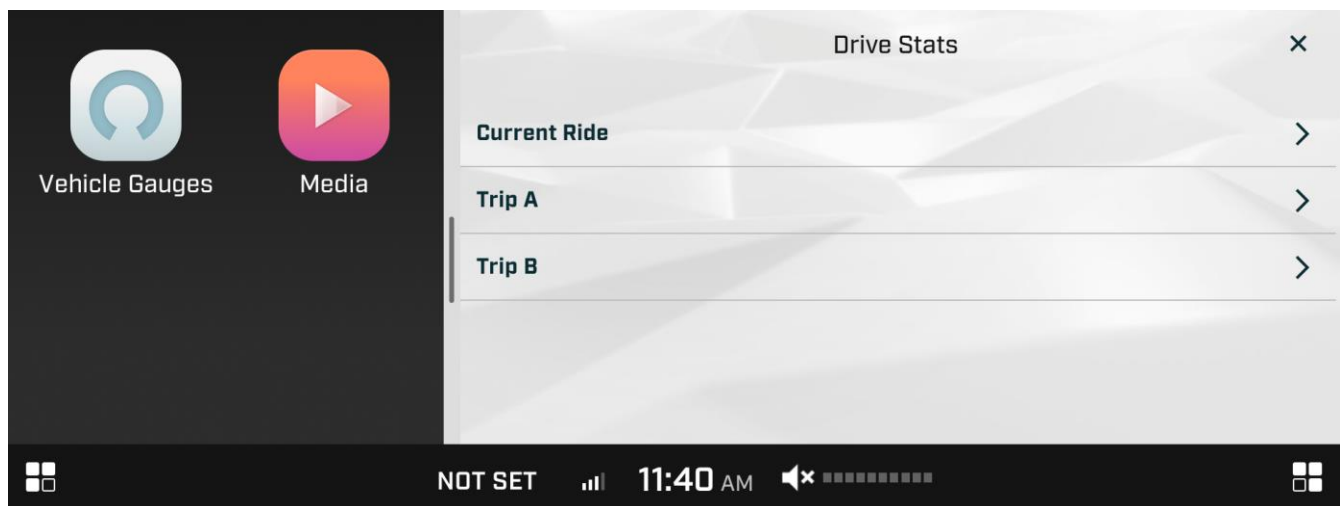
Vehicles that are equipped with a camera function could have one or two on-board cameras for capturing the scenery.



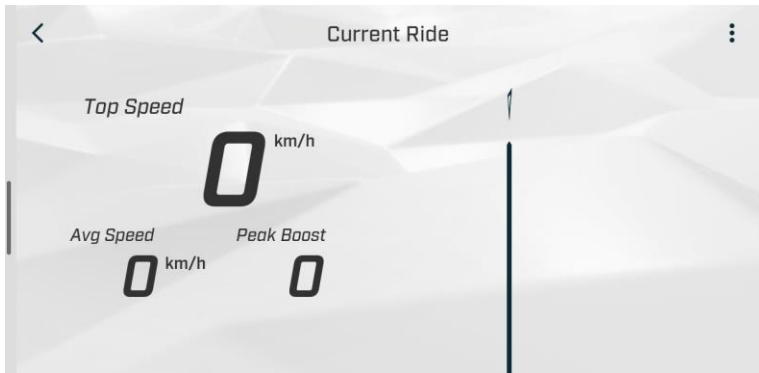
If the vehicle is equipped with two cameras, touch  to see the alternate view:



Drive Stats



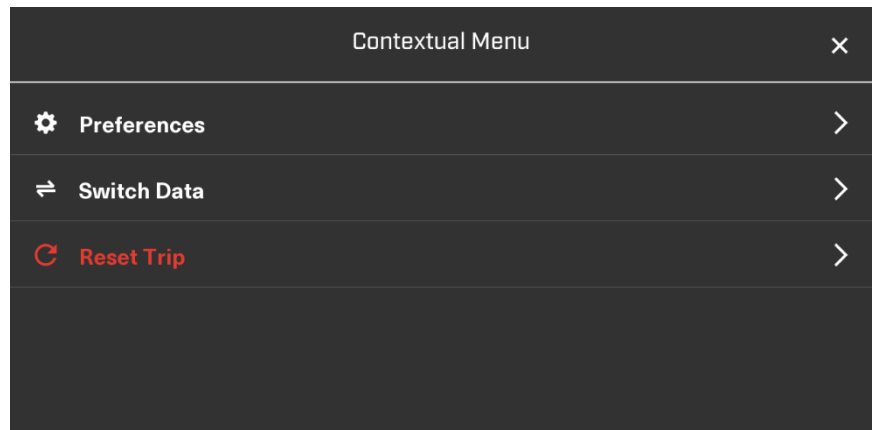
Drive Stats will provide details of your choosing such as top speed, average speed and peak boost for the current trip and two saved trips (A and B).



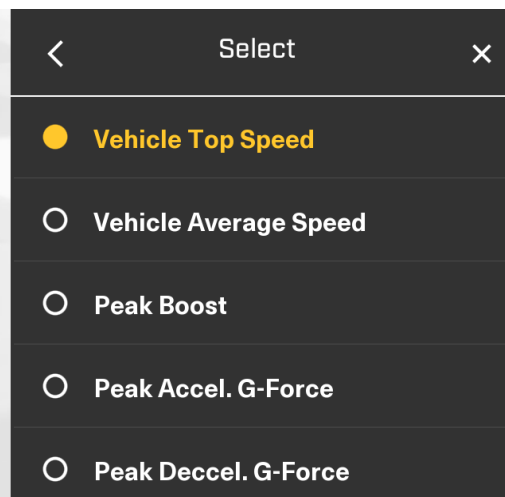
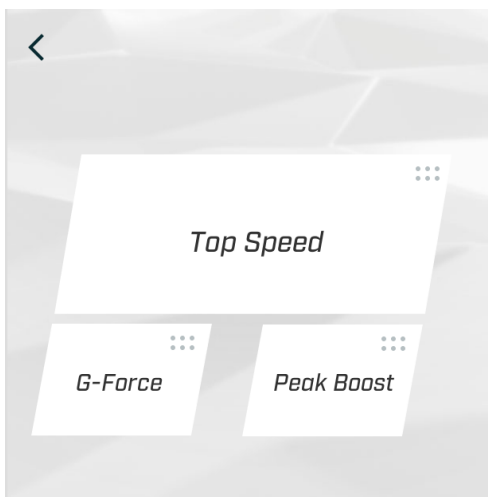
To choose which pieces of information will be displayed for the current ride, ensure the Current Ride is selected and touch the three dots in the upper right corner to display the next screen.



Touch Preferences, and the screen on the following page will appear:



Preferences



If any of the widgets on the left side need to be changed, touch the widget to change and select the new function on the right.

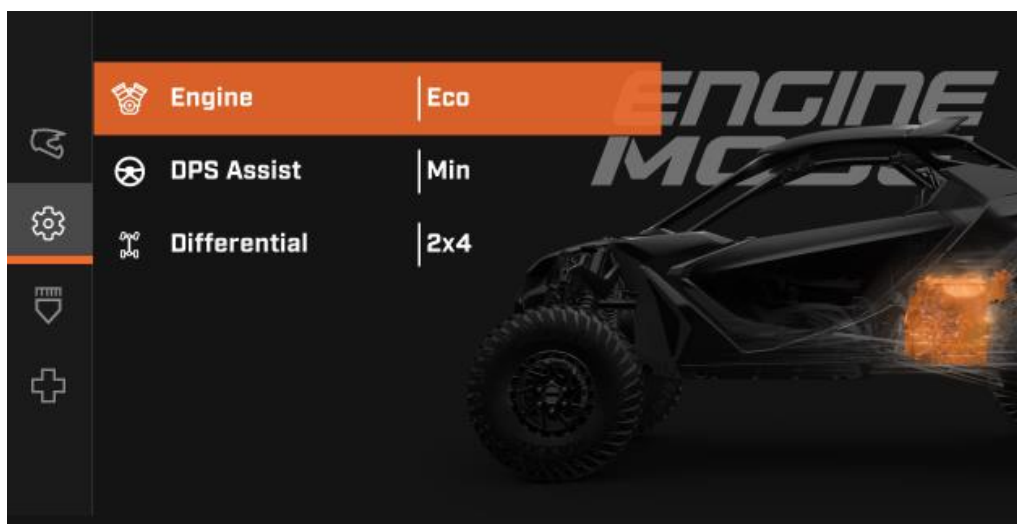
Reset Trip

To reset the statistics of the current trip, Trip A or B, follow these steps:

Step	Action
1	Access the Drive Stats applet.
2	Touch the Back arrow.
3	Select the trip to reset (current, A or B).
4	Touch the 3 dots in the upper right corner.
5	Touch Reset Trip.

Vehicle Settings

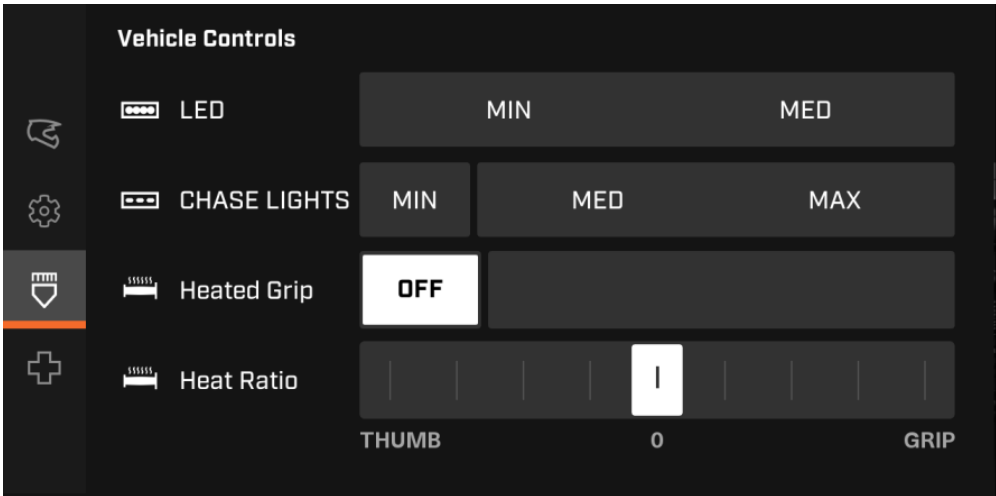
Engine Components



This screen displays the current selection for:

- Engine: Choose between Eco, Sport or Sport +
- DPS Assist: Choose between Minimum, Medium and Maximum
- Differential: Choose between 2x4 and 4x4

Vehicle Controls

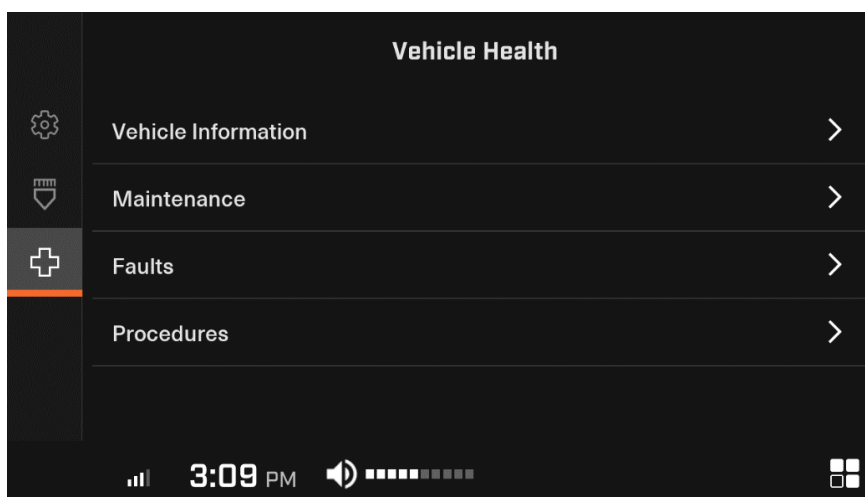


Within Vehicle Controls, the following features can be adjusted:

- LED Lights: choose between Minimum to Medium
- Chase Lights: choose between Minimum, Medium or Maximum
- Heated Grip: turn On or Off.
- Heat Ration: control where most of the heat resides, between the Thumb and Grip locations.

Vehicle Health

Vehicle Health will contain information useful in troubleshooting the hardware and software used, maintenance schedules, on-board faults, and facilities to help with Summerization. Refer to the following table for more information on these offerings.



Menu Item	Description
Vehicle Information	Provides the VIN, Model number, BRP Hardware number, BRP Software number, CSS Software number, GSS Software number and Bootloader number.
Maintenance	Provides the countdown to the Next Maintenance date and a method to reset the counter.
Faults	Displays any Active and Stored faults that have developed in the vehicle.
Procedures	Details the procedure for Summerization.

System Settings

The System Settings menu allows the establishment of the following parameters for the display:

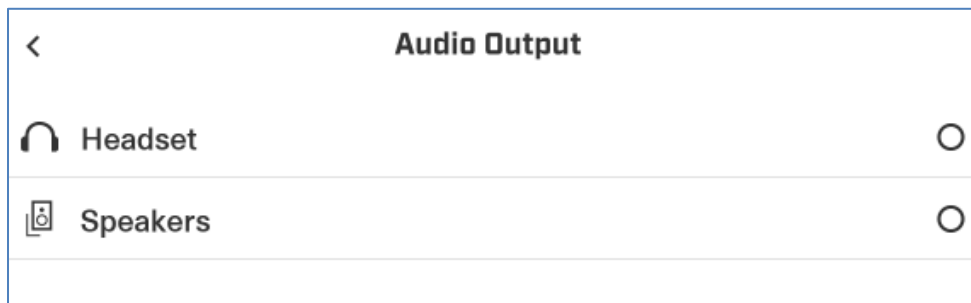
Section	Description
Audio	Allows the selection of the Audio Output, Auto Volume, Volume Manager, Equalizer and Fade & Balance settings.
Display	Allows the selection of the display colors and brightness settings.
Bluetooth	Allows the selection of Bluetooth-enabled devices to connect to the display.
Wi-Fi	Allows the connection of the display to a local wireless network.
General	Allows the establishment of settings for Unit, Language, Date & Time, Software Updates, and a reset to the Factory Settings.

App Switcher Manager	Allows the user to choose which app they wish to see.
Action Switcher Manager	Allows the user to choose which action they wish to perform.
Cluster Settings	Allows the selection of where the RPM/Speed gauges will appear.

Audio

This section allows the setting of various Audio components for a custom sound experience.

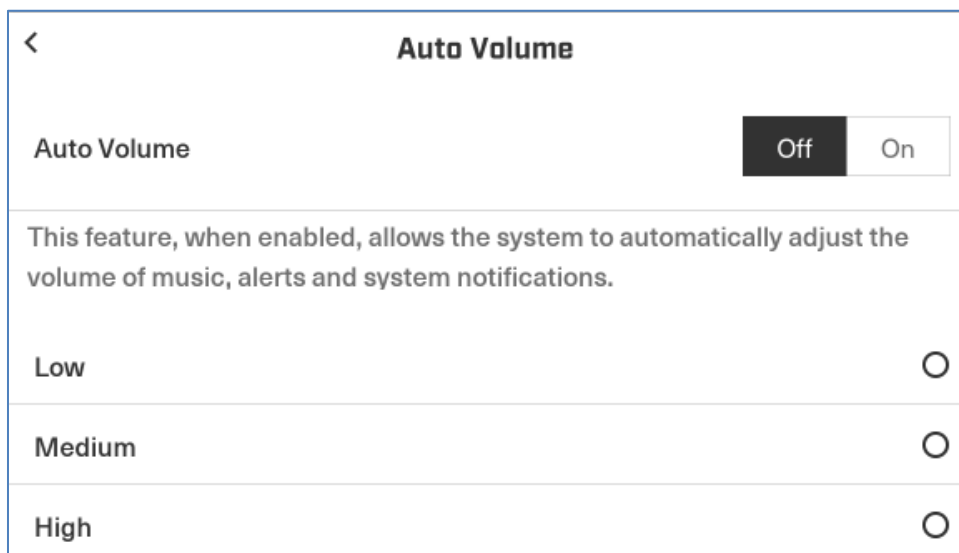
Audio Output



The screenshot shows the 'Audio Output' settings screen. At the top, there is a back arrow and the title 'Audio Output'. Below this, there are two options: 'Headset' with a headset icon and 'Speakers' with a speaker icon. Each option has a radio button to its right, indicating that only one can be selected at a time.

Choose between Headset or Speakers. Touch the back arrow to return to Audio Settings.

Auto Volume

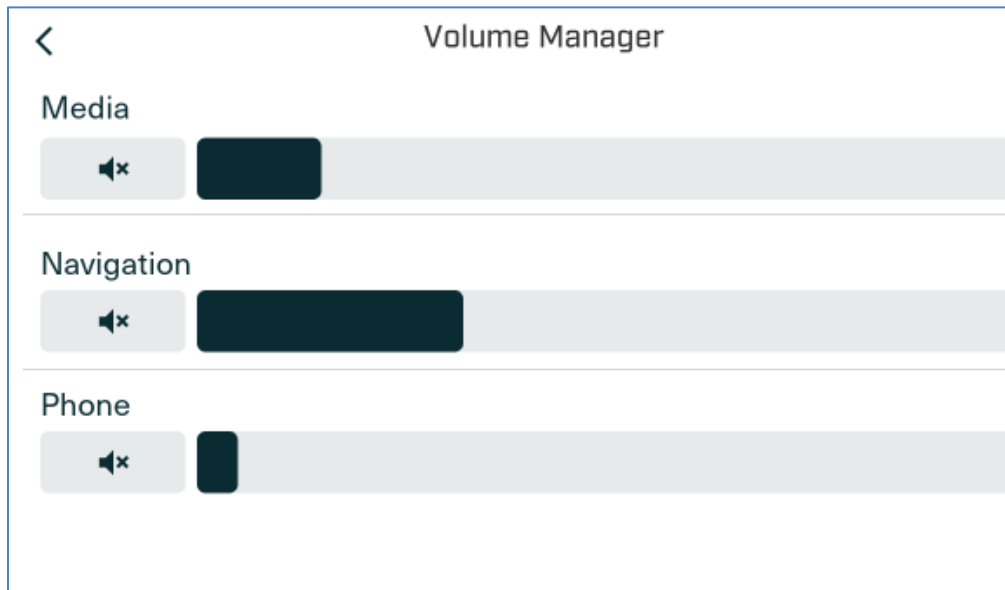


The screenshot shows the 'Auto Volume' settings screen. At the top, there is a back arrow and the title 'Auto Volume'. Below this, there is a toggle switch for 'Auto Volume' currently set to 'Off'. Below the toggle, there is a description: 'This feature, when enabled, allows the system to automatically adjust the volume of music, alerts and system notifications.' At the bottom, there are three volume level options: 'Low', 'Medium', and 'High', each with a radio button.

As stated on the above screenshot, this feature, when enabled, allows the system to automatically adjust the volume of music, alerts, and system notifications to compensate for wind and engine noise.

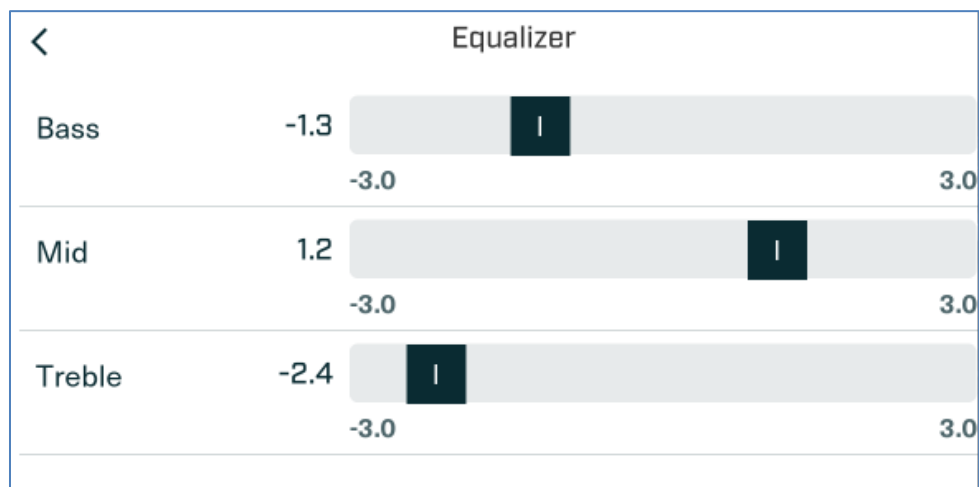
Enable Auto Volume by touching On, then touch the level of volume desired (Low, Medium or High).

Volume Manager



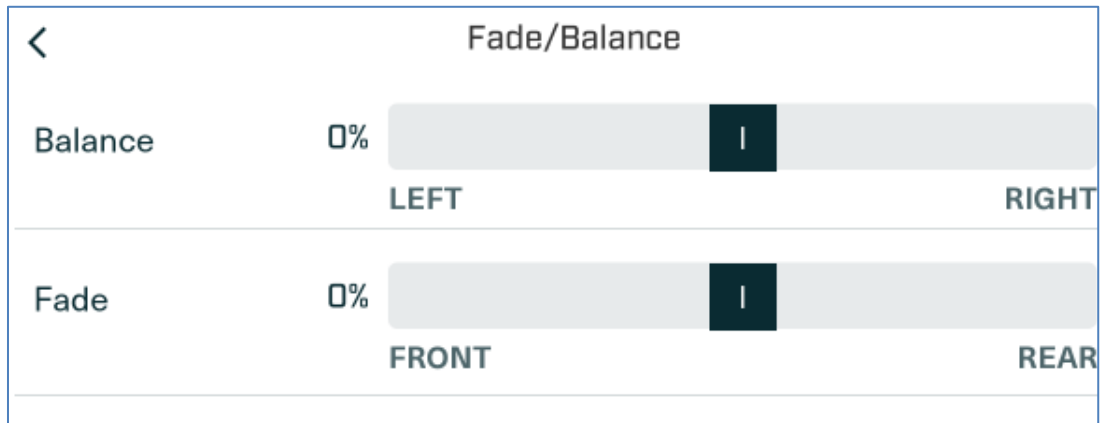
Volume Manager allows the setting of volume for Media, Navigation and Phone. Touch the area of the line at which you wish the volume to be. Touch the back arrow to return to Audio Settings.

Equalizer



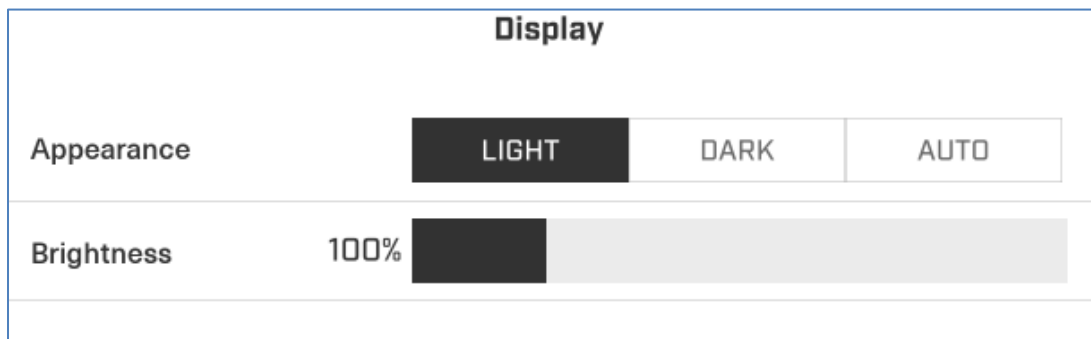
Equalizer allows the setting of the Bass, Mid and Treble ranges. Touch the area on the scale to which you wish the setting to be. Touch the back arrow to return to Audio Settings.

Fade / Balance



Balance allows the setting of the sound between the left and right speakers, and Fade allows the setting of the sound from the Front to the Rear of the vehicle. Touch the area of these lines to which you wish the sound to be. Touch the back arrow to return to Audio Settings.

Display



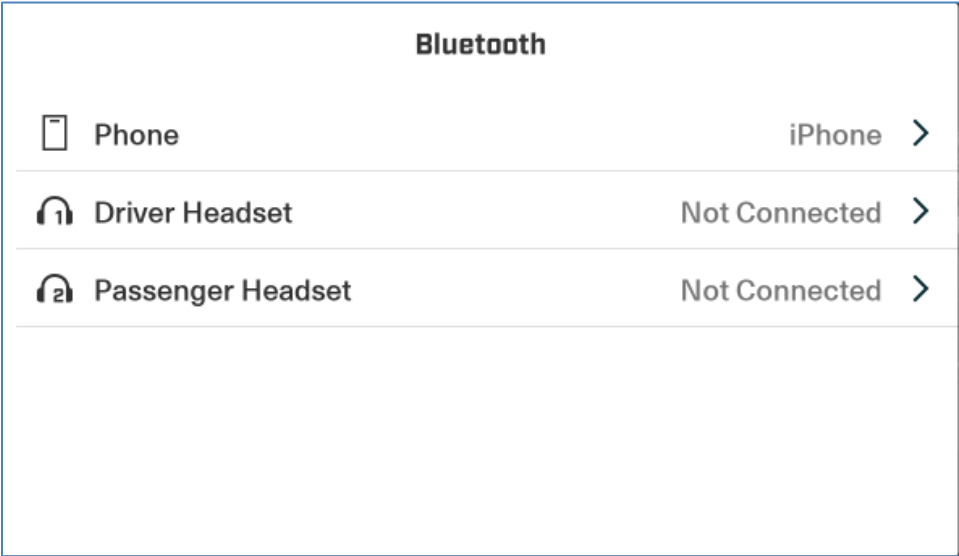
Display controls how the screen will appear. Touch Light, Dark or Auto to set the backlight of the display. Fine tune your selection by touching the desired percentage of Brightness. Touch the back arrow to return to Audio Settings.

Bluetooth

Bluetooth will allow the connection of a phone, driver headset and passenger headset to the vehicle.

The Phone instructions are detailed in the [Bluetooth Settings](#) section printed earlier in this manual.


Follow the headset manufacturer’s instructions for connecting a headset.



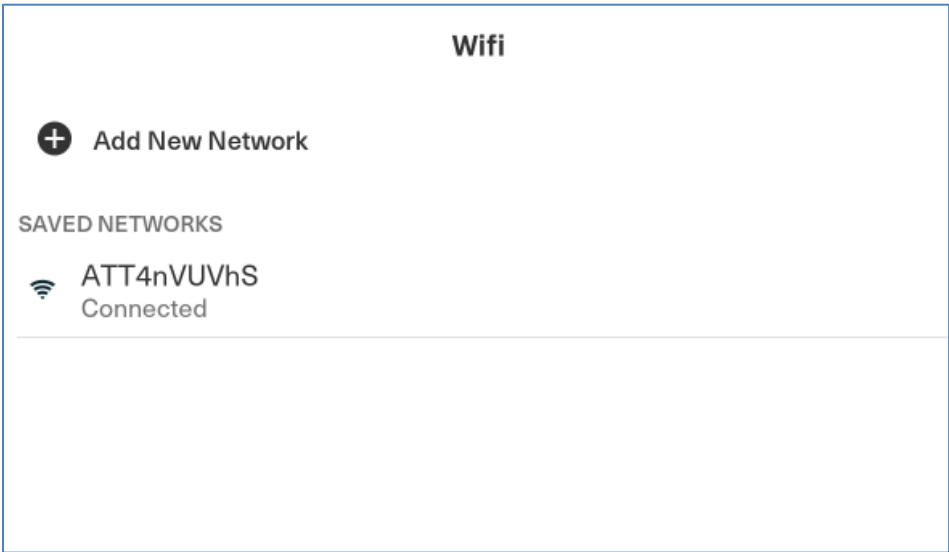
Wi-Fi

Wi-Fi allows the connection of the vehicle to an existing network.

To connect to an existing network, touch Add New Network and select an available network from the list that appears. Touch the

 icon if the desired network name does not appear on the list.

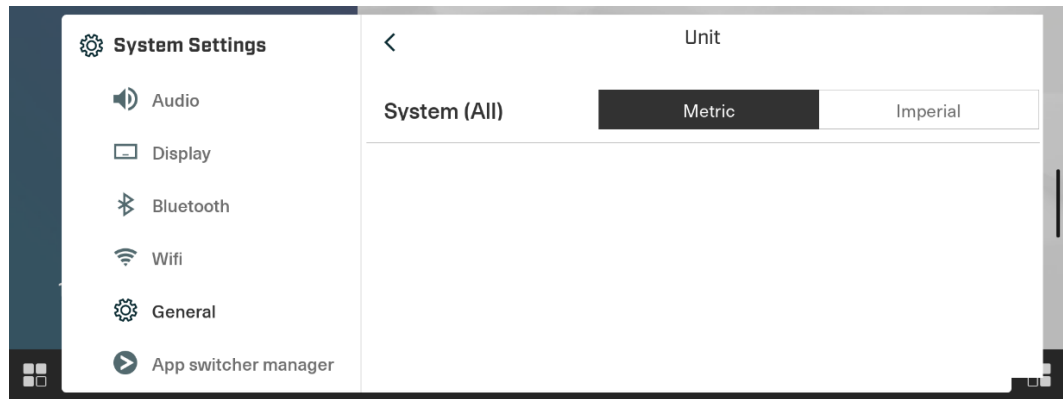
Enter the correct password for that network and touch Done.



General

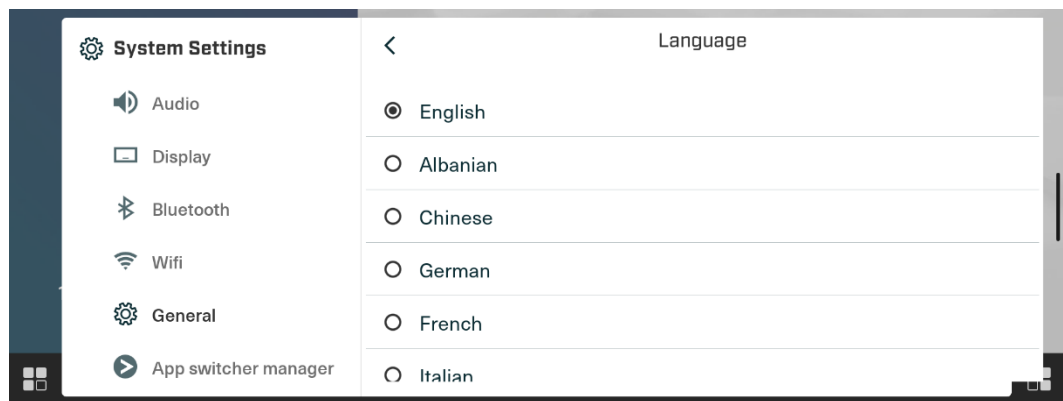
Unit

Choose between Metric and Imperial.



Language

Choose between English, German, Spanish, Finnish, French, Italian, Japanese, Dutch, Norwegian, Portuguese, Russian, Swedish or Chinese.

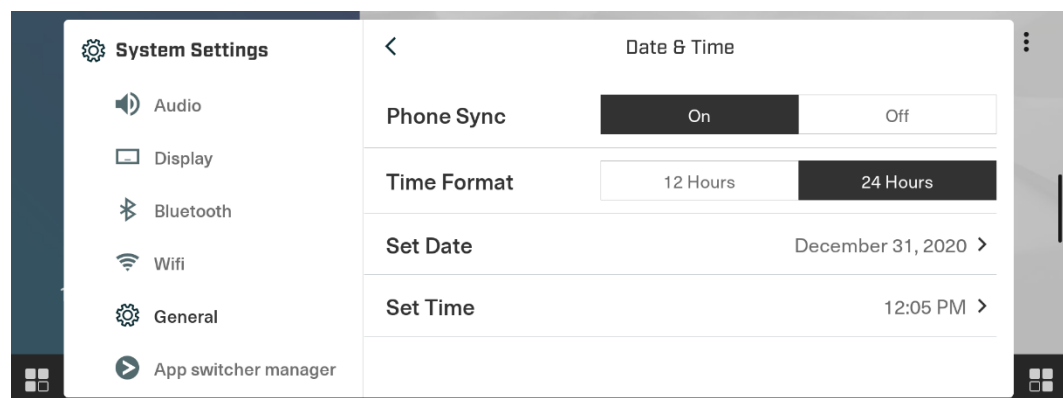


Date & Time

To sync the time with a connected phone, turn this option on.

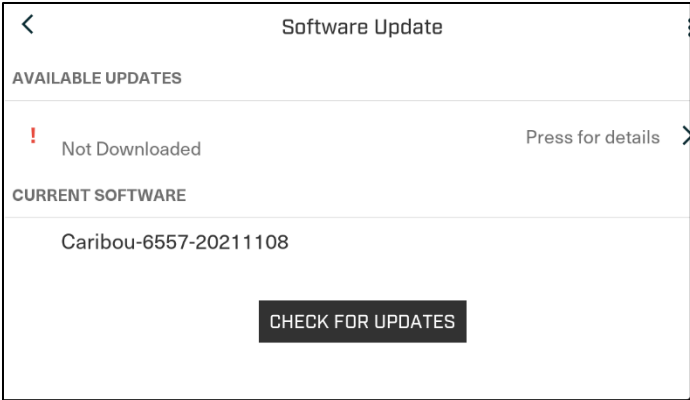
Choose a 12- or 24-hour time display.

Set the Date and Time via the right arrows for those selections.



Software Update

Touch Check for Updates to see if a software update is available for download.



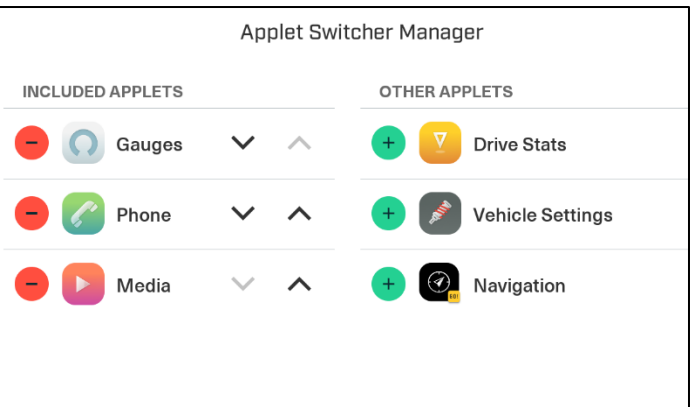
Reset to Factory Settings

If a Factory Reset is desired, choosing Reset Settings will erase all custom settings and revert to those set at the factory.



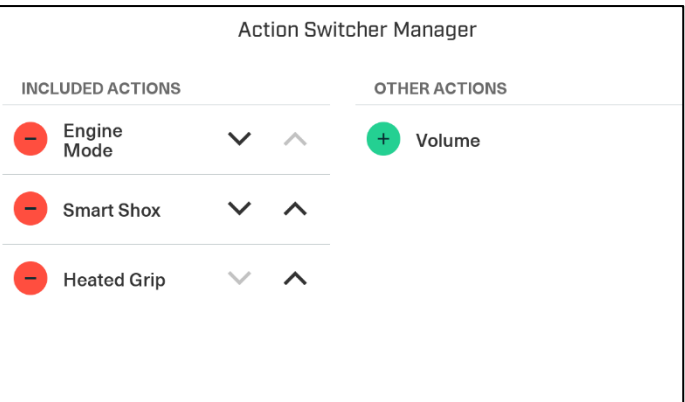
App Switcher Manager

The Applet Switcher Manager allows the user to customize which Applets are cycled through via hand controls while riding.



Action Switcher Manager

The Action Switcher Manager allows the user to select which vehicle settings to include in their custom list that is cycled through via hand controls while riding.



Cluster Settings

This screen allows the designation of RPM/Speed or Speed/RPM to be displayed on the gauge screen.

Cluster Settings

Position

RPM/Speed

Speed/RPM

Specifications

Computing

Main Processor: Renesas R-Car M2 Tricore 1.5-GHz Arm Cortex -A15 Dual, SH-4A core®

Operating System: QNX® Realtime Operating System

Display 10.25"

Type: 10.25" Active Area [243 mm(W) x 91 mm (H)] TFT IPS LCD with LED backlight, 24-Bit color

Resolution: 1920 x 720 pixels

Contrast Ratio: Typ. 1000:1

Brightness: 1000 cd/m2

Surface: Anti-glare etched glass

Hardware

Mating Connectors: MOLEX 64321-2011 53pin, USB-A Female

Communication

A2B: (1)

Bluetooth: (2) Fully integrated Bluetooth 5.0, Class 2 power rating

CAN: (2) CAN Bus, Supports J1939 standard and proprietary messaging

USB: (1) USB 2.0 Full Speed Host

WIFI: (1)

Electrical

Operating Voltage: 7-16 Volts, Reverse polarity protected

Dark Current: <300µA

Microphone Input: Supports differential signal input

Audio Output: (L/R) multi-zone differential output

Outputs: (1) 5V Mic Power, (1) 12V Buzzer Output, (1) 12V Amp Turn On, (1) 12V 10A current limited, (1) 12V 2A Current limited, (1) 12V Keypad Power

Inputs: (2) NTSC/PAL Video inputs,

EMI/EMC: SAE J1113, ISO 16750, EN 61000-4-2, CE per 2014/30/EU

Overcurrent Protections – Current Limited Outputs

Upon over current detection, the 2A output on pin 2 and the 10A output on pin 3 will shut off. A full display shutdown and restart will be required to return the outputs to the On state. This product is protected by a 20A fuse. Replace only with the same type fuse and fuse rating.

Environmental

Operating Temperature: 0°C to +60°C (32°F to +140°F)

Protection: As specified and tested per BRP Technical Requirements, IPXX Rated

Vibration/Shock: As specified and tested per BRP Technical Requirements, 30G in 3 axes

Altitude Limitations: Maximum Altitude: 2000m

Technical Addendum


Regulatory Certification Information Labels & Marks

Country Name highlighted in Green if Certification information is complete.

Country Name highlighted in Red if more information is needed.

Argentina

(Argentina)

 **RAMATEL**
X-00000

Brazil

(Brazil)



XXXXX-XX-XXXXX

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL: www.anatel.gov.br.

Hong Kong

(Hong Kong)



Indonesia

(Indonesia)

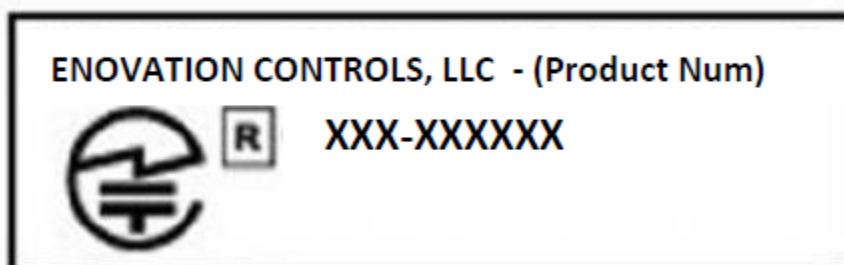


Cert #: XXXXX/SDPPI/2021

PLG ID: XXXXX

Japan

(Japan)



Mexico

Mexico



La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Peru

(Peru)

Product Name: XXXXXXXXXX Importer: XXXXXXXXX (name, address, RUC)
Weight: XX lb
Any caution/warnings of health risks
Manufactured in USA

Russia

(Russian Federation (Armenia, Belarus, Kazakhstan, Kyrgyzstan and Russia))



Manufacturer: ENOVATION CONTROLS, LLC

The Declaration of Conformity No. XXXX, valid until DD.MM.YYYY, registered with the Federal Communications Agency on DD.MM.YYYY.

Taiwan

(Taiwan)



Brand: BRP, Model No. 78350859, Rating: 7-16VDC; XXA; 528W(MAX), Manufacturer: ENOVATION CONTROLS, LLC., ASSEMBLED IN USA.

"Caution of Electromagnetic wave", "Caution of vision protection", "Take 10 mins rest after using for 30 mins", "Children who are under 2 years cannot watch the screen. And others should not watch the screen for more than 1 hour per day.", "The RF device should not interrupt the flight safety and legal telecommunication. If an interruption occurs, you must stop using the RF device."

Thailand

(Thailand)



UK

(UK)

UK
CA

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