



USER GUIDE

RZR / RANGER / GENERAL / XPEDITION
7" DISPLAY POWERED BY
RIDE COMMAND

POLARIS
Think Outside



WARNING

Read, understand, and follow all of the instructions and safety precautions in this manual and on all product labels.

Failure to follow the safety precautions could result in serious injury or death.



WARNING

Operating, servicing, and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.

For more information go to www.P65Warnings.ca.gov/passenger-vehicle.



*For videos and more information
about a safe riding experience with
your Polaris vehicle, scan this QR
Code® with your smartphone
or visit: [www.polaris.com/en-us/
safety/](http://www.polaris.com/en-us/safety/)*



**Off-Road Vehicles User Guide
for 7" Display Powered by
RIDE COMMAND**

Unless noted, trademarks are the property of Polaris Industries, Inc.

Ride Command® is a registered trademark of Polaris Industries, Inc. iPhone® and iPod® are registered trademarks of Apple Inc. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. Sandisk® is a registered trademark of SANDISK LLC. exFAT® is a registered trademark of Microsoft Corporation. FOX® is a registered trademark of Fox Factory Inc. Google Play® and Android® are registered trademarks of Google, LLC. Apple®, App Store® and iPhone® are registered trademarks of Apple Inc. iOS® is a registered trademark of Cisco Systems, Inc. SD® is a registered trademark of SD-3C, LLC.

Copyright 2023 Polaris Industries Inc. All information contained within this publication is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only. No liability can be accepted for omissions or inaccuracies. Any reprinting or reuse of the depictions and/or procedures contained within, whether whole or in part, is expressly prohibited.

The original instructions for this vehicle are in English. Other languages are provided as translations of the original instructions.

Printed in U.S.A.

RIDE COMMAND User Guide

9939929 R02



Welcome to RIDE COMMAND for POLARIS. This intuitive display gives you access to a variety of interactive features and access to your vehicle's custom information.

For a safe and enjoyable riding experience with your new display, please read your vehicle's owner's manual and this user's guide. If you need additional assistance with display operation or software updates, please see your authorized POLARIS dealer or visit <https://ridecommand.polaris.com/en-us/>.

For the latest information about your POLARIS display powered by RIDE COMMAND, including software updates, please visit <https://ridecommand.polaris.com/en-us/>.

WARNING

Do not enter information while operating your vehicle. Failure to pay attention to the operation of your vehicle could result in loss of control, injury, or death. You assume all risks associated with using this device. Read your user's guide thoroughly and always drive with the latest maps and road data from <https://ridecommand.polaris.com/en-us/app/display>.

SAFETY SYMBOLS AND SIGNAL WORDS

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.

DANGER

DANGER indicates a hazardous situation which, if not avoided, WILL result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, COULD result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, COULD result in minor to moderate injury.

NOTICE

NOTICE provides key information by clarifying instructions.

IMPORTANT

IMPORTANT provides key reminders during disassembly, assembly, and inspection of components.

The Prohibition Safety Sign indicates an action NOT to take in order to avoid a hazard.



The Mandatory Action Sign indicates an action that NEEDS to be taken to avoid a hazard.



TABLE OF CONTENTS

Introduction	7
Getting Started	19
Features and Controls	25
Operation	51
Dynamix Active Suspension (If Equipped)	55
Dynamix DV Active Suspension (If Equipped)	63
Maintenance	79

INTRODUCTION

OVERVIEW

Thank you for purchasing a RIDE COMMAND display, and welcome to the Polaris RIDE COMMAND App. This intuitive display gives you access to your vehicle's custom information and a variety of features.

For a safe and enjoyable riding experience with your new display, please read your vehicle's owner's manual and this display user guide. If you should need additional assistance with display operation or software updates, please see your Polaris dealer or visit *ridecommand.polaris.com*.

For the latest information about your RIDE COMMAND display, including software updates, please visit *ridecommand.polaris.com*.

 **WARNING**

Do not enter information while operating your vehicle. Failure to pay attention to operating your vehicle could result in loss of control, injury, or death. You assume all risks associated with using this device. Read your User Guide. Always ride with the latest maps and trails data from <https://ridecommand.polaris.com/display>.

INTRODUCTION

SAFETY SYMBOLS AND SIGNAL WORDS

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.

DANGER

DANGER indicates a hazardous situation which, if not avoided, WILL result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, COULD result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, COULD result in minor to moderate injury.

NOTICE

NOTICE provides key information by clarifying instructions.

IMPORTANT

IMPORTANT provides key reminders during disassembly, assembly, and inspection of components.

The Prohibition Safety Sign indicates an action NOT to take in order to avoid a hazard.



The Mandatory Action Sign indicates an action that NEEDS to be taken to avoid a hazard.



BEFORE YOU RIDE

Before riding with your new display, do the following:

- Read this section and the Ride Command User Guide in their entirety.
- Familiarize yourself with the features and operations of the display while the vehicle is stationary.
- Download the Polaris RIDE COMMAND App from the Apple® App Store® or Google Play® store and create your personalized account.
- Check your display to ensure you have the appropriate maps and trails visible for your area. To change or update maps/trails see page 80.
- Check <https://www.polaris.com/en-us/owners-manuals/> for the latest updates to the owner's manual.

NOTICE

Trails change often, and the trail data file is only considered valid for 90 days after the release date. Please keep your trail data up to date. Download the latest trails at <https://ridecommand.polaris.com/display>

NOTICE

Using the display for an extended period of time while the vehicle's engine is off can drain the battery.

INTRODUCTION

DEVICE COMPLIANCE STATEMENTS

USA RADIO COMPLIANCE

This vehicle contains the following radio equipment or components that contain radio equipment:

COMPONENT	COMPONENT ID	MANUFACTURER
Ride Command RC-7 Display	RC-7	Polaris Industries Inc.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADA RADIO COMPLIANCE

This vehicle contains the following radio equipment or components that contain radio equipment:

COMPONENT	COMPONENT ID	MANUFACTURER
Ride Command RC-7 Display	RC-7	Polaris Industries Inc.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS (s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT

For applications that use vehicle-to-vehicle (V2V) communication, radio transmitter IC 5966A-P001 has been approved by Innovation, Science and Economic Development Canada (ISED) to operate with Polaris antenna (part number 4018713) with gain of 3 dBi. Any antenna that has a gain greater than 3 dBi is prohibited for use with this device.

EUROPEAN UNION (EU) RADIO COMPLIANCE

This vehicle contains the following radio equipment or components that contain radio equipment:

Component	Ride Command RC-7 Display
Component ID	RC-7
Manufacturer	Polaris Industries Inc.
*Transmitting Frequency	2402 - 2480 MHz
Max RF Transmitting PWR	0.2432 W
*Other transmitting radio frequencies may exist outside of EU markets.	

Hereby, Polaris Industries Inc. declares that the above radio equipment is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.polaris.com/en-us/radio-conformity/>

INTRODUCTION

RADIO COMPLIANCE STATEMENTS

The following statements apply to radio components offered with this vehicle. These include but may not be limited to the touchscreen display.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with FCC RF radiation exposure limits for general population.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS (s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

CAUTION

This equipment complies with part 15 of the Federal Communications Commission (FCC) rules.

These requirements are intended to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This vehicle contains the following radio equipment or components that contain radio equipment:

INTRODUCTION

COMPONENT	COMPONENT ID	MANUFACTURER
Ride Command RC-7 Display	RC-7	Polaris Inc.

Hereby, Polaris, Inc. declares that the above radio equipment is in compliance with EU Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.polaris.com/en-us/radio-conformity/>

INTRODUCTION

REGULATORY INFORMATION

Viewing Regulatory Information on the Display:

1. Tap the POLARIS logo at the top of the screen or press the POLARIS North Star button beneath the screen.
2. In the bottom right-hand corner, tap **All Settings**.
3. Tap the **REGULATORY INFORMATION** button.

<p>CHINA CMIIT ID: 2023DJ8361</p>	<p>MOROCCO AGREE PAR L'ANRT MAROC Numéro d'agrément: MR00035859ANRT2022 Date d'agrément: 16/12/2022</p>
<p>SENEGAL Approval Number: 072703/AG/ER Brand and type of Device: Polaris – (type of Device) Système navigation pour véhicule Model Number: RC-7</p>	<p>THAILAND “เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของกสทช.” <i>Translation: “This telecommunication equipment conforms to the technical standards or requirements of NBTC.”</i></p>
<p>ARGENTINA  R-28599</p>	<p>PHILIPPINES NTC  Type Accepted ESD-RCE-2333981</p>
<p>SOUTH AFRICA  TA 2023/0093 APPROVED</p>	<p>SINGAPORE <div style="border: 2px solid black; padding: 5px; display: inline-block;"><p>Complies with IMDA Standards N2888-23</p></div></p>

UNITED ARAB EMIRATES

TDRA

ER15563/22
United Arab Emirates



PARAGUAY



CONATEL
NR: 2023-05-I-0344

Manufacturer: Polaris Industries

Brand Name: Polaris

Model Number: RC7

Distributor: Asuncion Motor Sport SA

Address: Mayor Evacio Perincio Merlo 2501, Asunción 001401, Paraguay

Contact Name: Jose de Ayala jose.ayala@amssa.com.py

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”

Translation: Operation of this equipment is subject to the following two conditions: (1) it is possible that this equipment or device may not cause harmful interference and (2) this equipment or device must accept any interference, including interference that may cause undesired operation.

INTRODUCTION

TAIWAN — NCC



CCAL23LP0460T1

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Rough Translation: For low-power radio frequency equipment that has obtained certification, companies, firms or users are not allowed to change the frequency, increase the power, or change the characteristics and functions of the original design without approval. The use of low-power radio-frequency equipment must not affect flight safety and interfere with legal communications; if any interference is found, it should be stopped immediately, and it can only be used after improvement to no interference. The aforementioned legal communication refers to radio communication operated in accordance with the provisions of the Telecommunications Management Act. Low-power radio frequency equipment must endure the interference of legal communication or industrial, scientific and medical radio wave radiation electrical equipment.

TAIWAN — BSMI



R3F976

RoHS

- 使用過度恐傷害視力。(Rough Translation: Excessive use may damage eyesight.)
- 使用30分鐘請休息10分鐘。(Rough Translation: Please rest for 10 minutes after using for 30 minutes)
- 未滿2歲幼兒不看螢幕，2歲以上每天看螢幕不要超過1小時。(Rough Translation: Children under the age of 2 should not watch the screen, and children over the age of 2 should not watch the screen for more than 1 hour a day.)

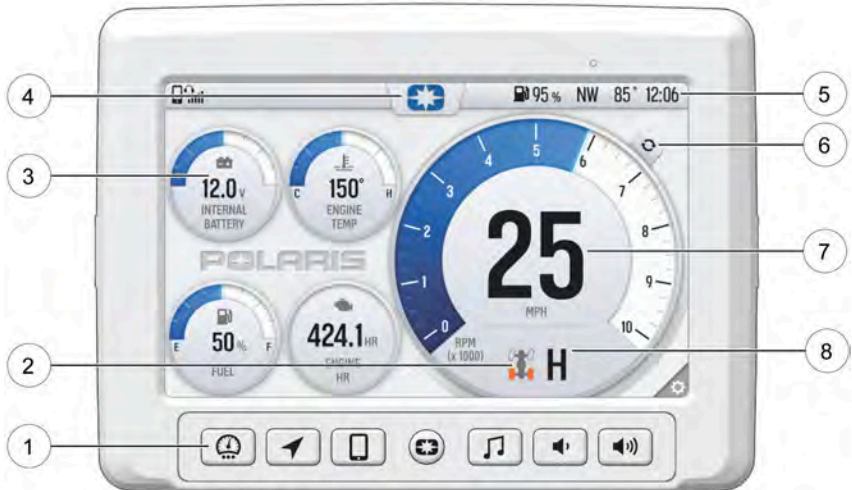
設備名稱：3286923
Equipment name RC-7
，型號（型式）：
Type Designation (Type)

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexava- lent chromium (Cr ⁶⁺)	多溴聯苯 Polybromi- nated biphenyls (PBB)	多溴二苯 醚 Polybromi- nated diphenyl ethers (PBDE)
Upper Case 上半部分 盒子	○	○	○	○	○	○
Button set	○	○	○	○	○	○

電鍵						
Display Digital Assembly (contains the PCB, screen, and electrical components) 触控显示 (包含 PCB、屏幕和电气元件)	○	○	○	○	○	○
Cable, Black 導線, 黑	-	○	○	○	○	○
Cable, Blue 導線, 藍	-	○	○	○	○	○
Lower Case 底子盒子	○	○	○	○	○	○
<p>備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “-” 係指該項限用物質為排除項目。 Note 3: The “-” indicates that the restricted substance corresponds to the exemption.</p>						



GETTING STARTED

OVERVIEW








- ① Ride Command Buttons
- ② Driveline Mode
- ③ Widgets
- ④ Settings
- ⑤ Icon Bar
- ⑥ Gauge View Mode
- ⑦ Speedometer/Tachometer
- ⑧ Gear Status




RIDE COMMAND BUTTONS

BUTTON	DESCRIPTION	FUNCTION
	Menu Button	Press the Menu button to access the settings. To reboot the display, press and hold for 5 seconds.
	Gauge Screen Button	Press the Gauge Screen button to select from available screens.

GETTING STARTED

BUTTON	DESCRIPTION	FUNCTION
	Map Button	Press the Map button to access the map, manage your rides and waypoints, and to see your friends on the map with Group Ride.
	Phone Button	Press the Phone button to access your Bluetooth® connected phone, including recent calls, contacts, dialer, and messages.
	Audio Button	Press the Audio button to access the Radio, Weather, USB, and connected Bluetooth® music interface
	Volume Decrease Button	Press the Volume Decrease button to decrease the volume. Press and hold to mute volume.
	Volume Increase Button	Press the Volume Increase button to increase the volume.

DRIVELINE MODE

INDICATOR	DESCRIPTION	FUNCTION
	2WD	When the switch is on 2X4, the vehicle is in two-wheel drive at all times.
	AWD	When in All-Wheel Drive, the demand drive unit will automatically engage any time the rear wheels lose traction. When the rear wheels regain traction, the demand drive unit will automatically disengage. There is no limit to the length of time the vehicle may remain in 4X4. The vehicle automatically engages 4X4 when operating in reverse if the switch is set to 4X4 position.
	Turf Mode (if equipped)	When operating in TURF mode, the inside rear wheel will rotate independently from the outside wheel during turns. Operate in TURF mode only as needed to protect smooth, level surfaces from tire damage. DO NOT operate in TURF mode when climbing or descending hills, when sidehilling, or when operating on uneven, loose, or slippery terrain such as sand, gravel, ice, snow, obstacles, and water crossings. Always operate in AWD on these types of terrain.

GETTING STARTED

SETTINGS

From the setting menu you can view vehicle information, manage Bluetooth® devices, update display software, and more.

To access the Setting menu, press the Menu button ①.

You can also navigate to the settings menu by pressing the POLARIS logo at the top of the display screen ②. This will open the Control Panel. From the Control Panel, select the settings tab, then press the **All Settings** button located in the lower right corner of the display screen.



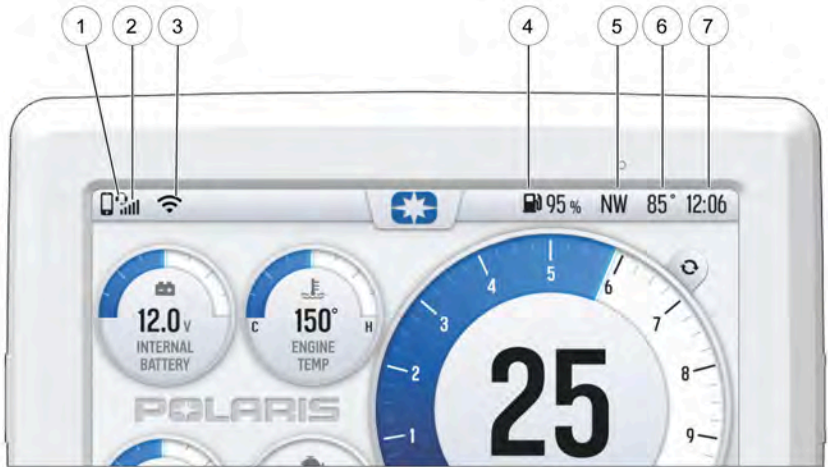
GAUGE VIEW MODE

Press ① to toggle between the two available gauge view modes, **Analog** and **Digital**.

While in the digital gauge view mode, press ② to invert the MPH and RPM units.



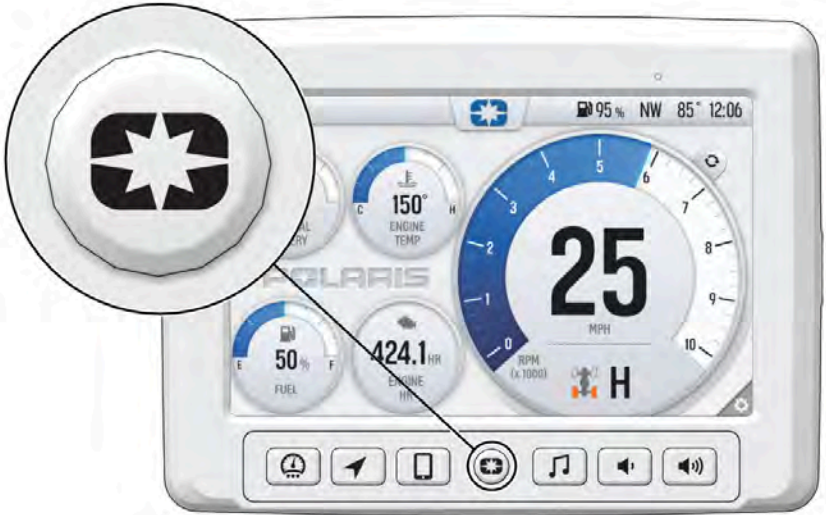
ICON BAR



ICON	DESCRIPTION	FUNCTION
①	Headset	Displays icon if headset is connected
②	Signal Strength	Displays current cell signal strength
③	Wireless Internet Signal Strength (if equipped)	Displays current wireless internet signal strength (if equipped)
④	Fuel Level	Displays current fuel capacity percentage
⑤	Vehicle Direction	Displays vehicle direction
⑥	Ambient Temperature	Displays ambient temperature
⑦	Clock	Displays current time

FEATURES AND CONTROLS

MENU/POWER



Press the Menu/Power button once to access the Badge Panel. The Badge Panel provides quick and easy access to key display features. For more information on the Badge Panel, see page 26.

Press and hold the Menu/Power button for five seconds to perform a hard reboot of the display screen.

FEATURES AND CONTROLS

BADGE PANEL

The Badge Panel provides easy access to frequently used features, basic display and vehicle controls, and a list of recent notifications. To access the Badge Panel, press the Polaris logo at the top of the display screen, or press the Polaris Menu/Power hard button.



- ① Badge Panel
- ② App Tray
- ③ Control Tab
- ④ Notifications Tab

- ⑤ Brightness Settings
- ⑥ Display Mode
- ⑦ Drive Mode
- ⑧ All Settings

APP TRAY

The App Tray provides easy access to key features on the display screen. Tap on any of the listed icons to navigate to that display screen. For example, tap the map icon to navigate to the map screen, or press the plow icon to navigate to the plow mode screen. The App Tray will display for 10 seconds.

NOTIFICATIONS

Press the Notifications tab ④ to view and manage notifications.

CONTROLS

Press the Controls tab ③ to adjust the screen brightness and display mode.

SCREEN BRIGHTNESS

From the Control tab ③, select screen brightness by moving the touchscreen slider to the left or right ⑤. Press the AUTO check box to allow the screen to adjust automatically based on ambient light conditions.

DISPLAY MODE

From the Control tab ③, select the display mode from the available options ⑥. The display mode can be set to Day, Night, or AUTO mode.

Day Mode



Night Mode



ALL SETTINGS

Press the All Settings button ⑦ to navigate to the settings menu. For more information about the settings menu, see page 51.

FEATURES AND CONTROLS

MEDIA VIEWER / GAME CAMERA

Use a USB adapter to connect the SD® card from your trail camera or other media capturing device to your display. If equipped, the USB connector will be located in the above-dash storage compartment, beneath the display or in the passenger side glove box, depending on your model.

Media Viewer



Game Camera



Image is for reference only. Your model might differ slightly.

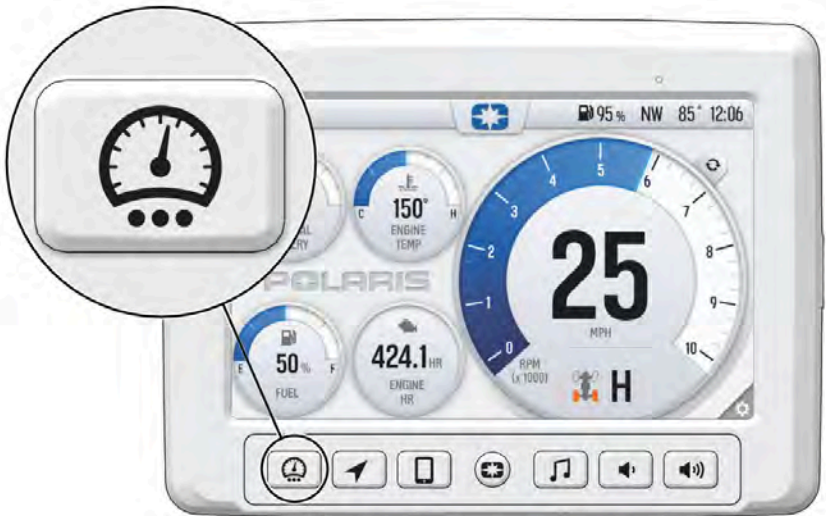
Viewing Images or Videos

1. Press the POLARIS Menu button or tap the POLARIS logo at the top of the screen.
2. In the left hand panel of the badge panel, tap **MEDIA VIEWER** or **GAME CAMERA**.
3. Tap the **Browse USB** button.
4. Tap the file folder, then tap the photo or video.
5. Use the left and right arrows to navigate through the images.

NOTE

To view photos from an SD® card, you will need a SD® to USB adaptor.

GAUGE SCREEN



Press the Gauge Screen button to toggle between two different gauge screens. Additional gauge screens can be added or deleted.

Each gauge screen is customizable and can be set up in the following configurations:

- Four round widgets
- Two round widgets and a list of three data values
- A list of five data values

Follow the instructions below to create customized gauge screens:

1. Press the **Gear** icon in the bottom right corner of the touchscreen.
2. On the right side of the configuration panel, press the **Screens** tab followed by the **Add New** button.



FEATURES AND CONTROLS

3. In the left side panel, choose a gauge layout from the three provided options.
4. Select the **Data** tab. As the widget slots on the left are selected, the selection of what data item to populate that widget slot with is selected from the list on the right.
5. To reorder widgets, press and hold down on the widget and slide into the desired position.
6. Once the gauge screen is configured, click the green check mark or **Done** to save the gauge and close the configuration panel.

TIP

Keep your display software up-to-date as more widget options become available. For more information, see page 79.

MAP SCREEN



Press the Map Screen button shown above to display the map screen. The map will center you based on the location of the GPS.

NOTE

Controls on the map surface disappear after 10 seconds of inactivity. Tap anywhere on the map to view controls.

ZOOM

Use the plus and minus signs on the left side of the screen, or pinch the screen with your fingers to zoom in and out on the map.

- Pinch zoom
- Plus / Minus button
- Auto-zoom to waypoint while navigating
- Current zoom level relative to maximum and minimum zoom



FEATURES AND CONTROLS

MAP ORIENTATION



The Compass icon on the right side of the screen toggles North Up and Course Up. It will also re-center your vehicle if not already centered.

MAP ORIENTATION	MAP ICON
North Up view locks the map's orientation so that North is always at the top of the screen, regardless of your vehicle's position or direction.	
Course Up view rotates the map to match the direction of your vehicle.	

POINTS OF INTEREST (POI)

Points of interest (POI), such as restaurants, gas stations, hotels, dealers, and more, are available from the map screen. POI will display on the map screen as you zoom in and out of the map. Tap on the POI icon to view more information about the location.

GO TO NAV

Go to Nav is available from the map screen when viewing a waypoint or POI. Go to Nav will display the distance and directional bearing of the POI.

NOTE

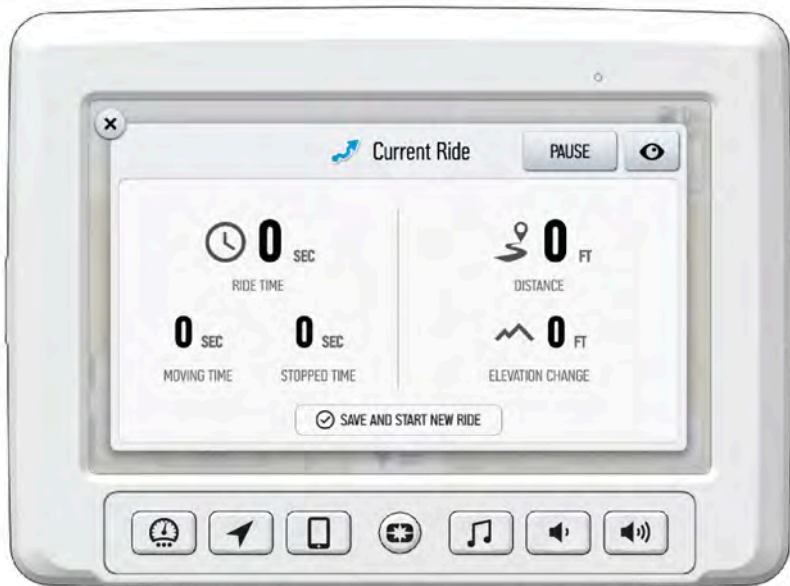
Go to Nav does not provide turn-by-turn directions to a POI.

MAP MENU

The Map Controls Tray can be accessed by tapping on the map menu icon ① at the bottom of the screen or by pressing the Map Screen button.



CURRENT RIDE



WAYPOINTS

Waypoints are user-defined locations on the map. Waypoints can be saved and shared with friends.

To add a waypoint, do the following:

1. From the map screen, tap the Map menu icon at the bottom of the display screen ①.
2. Select **Add Waypoint** ② from available options.



RIDES AND PLACES

FEATURES AND CONTROLS

GROUP RIDE (WHERE AUTHORIZED)

NOTE

The display requires a GPS lock, indicated by a blue arrow marker (as shown below), before you are able to set up or join a group ride.



Invite your friends to a group to see their live location on the map of your smartphone, tablet, or in vehicle Ride Command display.

For information on how Group Ride works and for instructions on how to set up Group Ride using your smartphone, or with a vehicle-to-vehicle (V2V) antenna, tap the “i” icon beside the title of the Group Ride Panel ①.



GROUP RIDE SETUP

There are two ways to set up a Group Ride.

Mobile Phone Group Ride:

- Works within cellular range
- Requires a tethered mobile phone
- Infinite range between vehicles
- Works with friends using the mobile app

Vehicle-to-vehicle Group Ride:

- Works anywhere, no phone required
- Requires an installed V2V antenna, standard on MY20+ vehicles
- 1+ miles range between vehicles



MOBILE PHONE GROUP RIDE

To set up a group ride using a mobile phone, do the following:

1. From the map menu, tap the **Group Ride** button.
2. Tap the **Setup Mobile Phone Group Ride** button on the display screen.
3. Complete all three steps on the screen, in the specified order, to set up Group Ride.



FEATURES AND CONTROLS

- Enable your Bluetooth® tethering in your phone's settings. Tap "Instructions" for more information on how to enable tethering on an iPhone® or Android® phone.
- Connect your phone via Bluetooth®. If your phone is currently connected, you **MUST** disconnect and reconnect it.
- Press the **Login** button to login to your Ride Command account. If you do not have a Ride Command account, sign up at ridecommand.polaris.com.

NOTE

Once you've completed all three steps above, your information will be stored (unless cleared manually) and you will not need to login again into your Ride Command account for future Group Rides.

4. Press the back button to go back to the group ride screen and join your Group Ride.

NOTE

In order for vehicles with a V2V antenna and vehicles using mobile phone based Group Ride to join the same group, at least one member of the group must be connected to both the V2V antenna and the mobile phone based Group Ride.

VEHICLE TO VEHICLE (V2V) ANTENNA

If your vehicle is equipped with a V2V antenna, use the following procedure to set up Group Ride:

1. From the map menu, tap the **Group Ride** button.
2. Tap **Setup V2V Group Ride** button on the display screen.
3. Tap the **Antenna Installed** toggle switch to the **Yes** position.



You are now able to join a Group Ride with other riders who have a V2V antenna installed. Press the back button to go back to the Group Ride screen and join your Group Ride. If you would like to ride with friends who do not have a V2V antenna, complete the setup instructions below to set up a mobile phone Group Ride.

JOINING A RIDE GROUP

To join a group, do the following:

1. From the map menu, tap the Group Ride button.
2. Nearby ride groups will display in order of distance. A GPS lock is required to view nearby group rides.
3. Tap the **Join** button ① to join a group.



Joining a group immediately brings you to the map view of that group. Other riders appear as dots on the map. If a rider is moving, the dot includes a heading arrow pointing in the direction they are riding.

NOTE


The map is set to zoom-to-group and as you ride it will automatically zoom to keep all riders in view. Tap the zoom control to return to manual zoom mode.

NOTE

The ride group panel on the side of the screen shows the name of the group and lists all group members with their name, icon color, distance and bearing from you to that rider.

FEATURES AND CONTROLS


RIDING WITH A GROUP

1. Tap the handle by the group name  to minimize the panel and show more map.
2. After 10 seconds of not interacting with the screen, the map controls will disappear. Tap the screen to make them visible again.
3. Tap on a rider icon in the Ride Group panel to show that rider relative to your location. If center-on-me is enabled, the display reverts to the centered state after 10 seconds.



CREATING A RIDE GROUP

To create a Ride Group, do the following:

1. On the Group Ride Panel, tap the "New Group" button  to create a group for others to join.
2. Give the group a name and choose whether a passcode should be required for others to join the group. If the "Private" toggle is tapped, you will be prompted to enter a four-digit passcode.



3. After creating a group, the panel closes and shows the new group on the map.
4. After a second rider joins, the map will switch to zoom-to-group and as you ride it will automatically zoom to keep all riders in view. Tap the zoom control to return to manual zoom mode.

MAP LAYERS

The map layers button allows you to turn on and off map items such as: topography, hill shading, satellite view, and land information (available with internet connection on models equipped with wireless internet functionality).

To adjust the visible map layers, follow these steps:

1. From the Map menu, tap **Map Layers** from the available options.
2. From the pop-up menu, select what layers you wish to have on or off.
3. Tap the **X** to exit out of the pop-up menu.



MAP GAUGES



PHONE SCREEN



Connect a smart phone and headset to listen to audio, make and receive calls and text messages, access a phone's contact list, and call history.

CONNECT YOUR PHONE TO THE DISPLAY

The Ride Command display is compatible with Android® and iOS®. Go to <https://ridecommand.polaris.com/en-us/supported-devices> for latest operating system compatibility.

Connect your Bluetooth® device to do the following:

- Pair your Bluetooth® device to pair and connect phones and Bluetooth® headsets.
- Display a list of paired devices with connection status.
- Display signal strength.
- Listen to music over a headset or through optional vehicle speakers.

IPHONE®

To connect your iPhone® to the display, do the following:

1. In your iPhone® settings, turn on Bluetooth®. If available, make your phone discoverable to other devices in your Bluetooth® settings. When your phone appears on the display, press the "+" button next to it.
2. A prompt will appear on your iPhone® requesting permission to pair with your phone.

3. Ensure the confirmation code on the screen and your phone are the same, then press “Pair” on your phone.
4. For optimal experience, enable notifications and sync contacts from your smartphone’s Bluetooth® settings.

ANDROID®

To connect your Android® device to the display, do the following:

1. From your smartphone settings, open the Bluetooth® options on your device and ensure that Bluetooth® is turned on.

NOTE
On some phones, you have to make the phone visible to other devices. If your phone has this feature, it should show up on the Bluetooth® connection screen of your phone. If no option exists to make your phone visible to the display, it is already visible to the display.

2. Press the Add Device button, then press “OK” on the display.
3. When your phone appears on the display, press the “+” button next to it to pair with your phone.
4. Ensure the confirmation code on the screen and your phone are the same, then press “OK” on your phone.
5. For optimal experience, press “Accept” on your phone when requested to access contacts and messages.
6. The display will now show a list of previously connected phones on the display. If it is unpaired, click on your phone from the list.

FEATURES AND CONTROLS

7. Once the display says connected/paired, your phone is now connected to the display via Bluetooth®. After a phone is connected, the Device Manager screen will appear.
8. When a smartphone is connected to the display via Bluetooth®, users are able to make phone calls from the display through the keypad, recent calls, or their contacts by pressing the phone icon in the Device Manager screen or through the pull down menu.

NOTICE

Ensure that your smartphone Bluetooth® settings are set to share phone calls, media audio, text messages, and contact information.

NOTICE

There is no built in microphone in the display. Phone call audio will play through the phone speakers or Polaris approved headset if connected. Some dial options may be unavailable at speeds greater than 3 mph (5 km/h) .

CONNECTING YOUR BLUETOOTH® HEADSET WITH THE DISPLAY

The display can connect with Polaris approved Bluetooth® headsets to listen to music, take phone calls, and talk with other riders.

To connect your Bluetooth® headset to your display, do the following:

1. From the Device Manager menu, press “Add Device.”
2. Turn your Bluetooth® headset on and put it in phone pairing mode.
3. When your Bluetooth® headset appears on the display, press the “+” icon on the display. Once your headphones are connected, you will see the headset icon in the upper left-hand corner of the display screen.

AUDIO SCREEN



1. Press the audio screen button shown above to display the audio screen.
2. Use the source button in the top left corner to change between FM, AM, Weather, Bluetooth®, and USB Audio.
3. Press the tune up or down icons to change the radio station by small increments or press the scan up or down icon to search for the next quality signal station.
4. To set favorites, scroll to a radio station and hold an “Empty” favorite icon. Press the arrows on either side of the favorites to view all 18 favorite slots.

RADIO

- Radio sources: AM, FM, MW (Medium Wave - Europe), LW (Long Wave - Europe), WX (Weather)
- Show currently playing station, song and artist, if available
- Tune up/down
- Scan
- Save and choose station presets



FEATURES AND CONTROLS

USB AUDIO

NOTE

Media navigation is only available if music is streamed through your device's music app and saved to the device storage of the phone.

NOTE

The USB connector within the unit is NOT meant for charging mobile devices or connecting/syncing the device to your display or RIDE COMMAND account. The USB Connector is strictly for USB flash drives (2.0 or 3.0) to transfer data to or from the display or to update RIDE COMMAND software, maps, trails or points of interest.

- Show currently playing song, artist, and album, if available
- Show song duration and current progress
- Browse available music by artist, album, song title and playlist, if available
- Show play queue of upcoming songs, add and remove music from queue
- Play / pause, go to next / previous song, repeat, shuffle



BLUETOOTH®

- Show currently playing song
- Play / pause, go to next / previous song



STREAMING SERVICES

- Show song duration and current progress
- Play / pause, skip

AUDIO CONTROLS

- Output to speakers or Bluetooth®
- Volume Up / Down
- Mute / Pause

PIN ACTIVATED SECURITY SYSTEM (IF EQUIPPED)

The Pin Activated Security System (P.A.S.S.) allows you to safely lock and unlock your vehicle from the Ride Command display screen.

ENABLE P.A.S.S.

1. Go the settings menu by pressing the Menu / Power button.
2. Select Vehicle Settings from the left toolbar.
3. Select Passcode Unlock.
4. If this your first time activating P.A.S.S. (or you are re-enabling the system), you will be prompted to enter a new pin. Enter and verify new pin.
5. Turn off the vehicle using the key ignition switch.

NOTICE

After activating P.A.S.S. for the first time, you must power down the vehicle and allow the ECM to fully shut down before restarting. This may take up to three minutes.

DISABLE P.A.S.S.

1. Go the settings menu by pressing the Menu / Power button.
2. Select Vehicle Settings from the left toolbar.
3. Select Passcode Unlock.
4. Enter pin code to disable P.A.S.S.

PLOW MODE (IF EQUIPPED)

NOTE

Plow Mode is a feature available for use with *RANGER XP 1000* vehicles that have a factory installed Ride Command System with a winch and auto stop winch fairlead as part of the factory wiring harness.

NOTE

It is not recommended to use plow mode with winch in rapid recovery mode.

Plow Mode is an automated plow control system based on vehicle gear position. To enable Plow Mode, do the following:

1. On the display, go to “Settings,” “Vehicle,” and then select “Plow Installed.”
2. From the Plow Installed screen, move the toggle switch from “No” to “Yes.”



NOTE

The procedure above is only required one time. The system will remember your settings for future use. If you want to disable seeing the Plow Mode screen as part of the gauges screen option, you can set the toggle back to “No” at a later date.

MANUAL PLOW MODE

Manual Plow Mode allows you to use the Ride Command touchscreen display to raise and lower the plow.

To raise and lower the plow, do the following:

1. To raise the plow, press the up arrow on the touchscreen display and slide it to the left.
2. To lower the plow, press the down arrow on the touchscreen display and slide it to the left.



AUTO PLOW MODE

Automatic Mode allows the display to automatically lower the plow when you shift to Low and will automatically raise the plow when you shift to Reverse.

To switch to AUTO Plow Mode, the system requires the following conditions to be met:

1. Plow must be fully up and the autostop fairlead must be detecting the rubber stopper.
2. Gear Position must be in Park.
3. The Winch in and Winch out relays must be in place in the fusebox (factory installed).



NOTE

Auto-plow mode will be disabled if excessive speed is detected.

FEATURES AND CONTROLS

BACK DRAG MODE

NOTE

Automatic Mode must be selected to allow selection of Back Drag Mode.

Back Drag Mode reverses the normal mode operation. When Back Drag Mode is selected, shifting to Reverse will lower the plow and shifting to Low will raise the plow automatically. To engage Back Drag Mode, press the “Back Drag Mode” button on the Ride Command display.

PLOWING IN HIGH RANGE

Polaris does not recommend plowing in High Range. Excessive belt wear and belt failure, plow damage, and vehicle damage can occur. The system by default will not allow automatic operation when the vehicle is in High Range. This lockout can be beneficial while plowing as it allows the operator to shift to High Range to move the vehicle forward without lowering the plow automatically. Anytime the vehicle is shifted into High Range and Automatic Plow mode is engaged, a warning notification will appear on screen. If plowing in high is needed, touching the **Enable in High** button will enable High Range operation in Automatic Mode. If the user changes screens, or restarts the vehicle, High Range will be locked out again and the rider will need to acknowledge the override again.

FAULTS AND WARNINGS

The display has several built in fault checks for plow mode. When the system detects a fault, an alert will be shown on the plow mode screen. Some faults can be cleared by a quick power cycle of the ignition key switch (less than 1 second). Some require a full reboot of the display to clear. If a plow mode related fault occurs, the display will show the required action needed to clear and reset the fault on the plow screen. Additional information about fault codes and corrective action are available from the display in the “Vehicle Diagnostics” screen found through the “Vehicle” settings tab.

OPERATION

SETTINGS

To access the Setting menu, press the Menu/Power button, or tap the POLARIS logo at the top of the display screen. This will open the control panel. From the Control Panel, select the settings tab, and then tap the **All Settings** button located in the lower right corner of the display screen.

INFO

Select the Info tab to view basic information about your model, such as:

- Vehicle Identification Number (VIN)
- Vehicle model number
- Installed software version
- Odometer miles
- Total engine hours
- Distance to next service



GENERAL

Select the General tab to do the following:

- Connect to Ride Command Account
- Manage Bluetooth® Devices
- View Phone Notifications
- Change the Display Language
- Set the Speed Units (mph or km/h)
- Set the Temperature Units (F or C)
- System Information
- Enable/Disable Passcode Security
- Update Software
- Update Maps and Trails



OPERATION

TIME

Select the Time tab to do the following:

- Set Time from GPS Location
- Set Time Zone
- Enable/Disable Daylight Savings Time
- Set Time (if GPS time location is not enabled)
- Set Date
- Enable/Disable 24–Hour format



AUDIO

Select the Audio tab to do the following:

- Access Equalizer
- Access Balance and Fader
- Clear Radio Presets
- Set Radio Tuner Region
- Set Automatic Volume Control



VEHICLE

Select the Vehicle tab to do the following:

- View Diagnostics
- View Oil Life Status
- View GPS Status
- Set V2V Antenna Status
- Enable/Disable Plow Mode
- Set Engine Start Lockout
- Set Speed Limit
- Set Steering Wheel Shortcut Button (if applicable)
- Set Camera (if applicable)



ENGINE OVERHEAT INDICATORS

NOTICE

See your vehicle owner's manual for more information.

A flashing indicator indicates continued operation could result in serious engine damage. The engine management system will automatically reduce engine power and set a fault. Stop the engine immediately. Allow the engine to cool down.

NOTICE

If engine overheating seems to be caused by something other than poor cooling conditions, see your dealer for service.

GPS MAPPING

NOTE

The compass is controlled by the GPS systems. Calibration is not required.

Use the compass and full-featured GPS when the GPS receiver is installed (includes the display of latitude, longitude and elevation). Mark and save waypoints and rides.

DYNAMIX ACTIVE SUSPENSION (IF EQUIPPED)

OVERVIEW

 **WARNING**

Driving while distracted can result in loss of vehicle control, crash, and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off of driving. Your primary responsibility is the safe operation of your vehicle.

Dynamix Active Suspension (if equipped) is the industry's most advanced suspension system, offering unprecedented control and comfort for any riding condition you experience with your *RZR*. Dynamix Active Suspension is an electronically controlled suspension system designed to optimize vehicle comfort and handling through continuously monitoring the driver's inputs and vehicle motion, and controlling the suspension in real-time.

Dynamix Active Suspension features FOX® electronically controlled shocks driven by a custom Polaris-designed Suspension Control Module (SCM). The suspension control algorithms and software were designed and developed by Polaris' engineering team, leveraging our expertise and deep knowledge of off-road vehicle dynamics. Dynamix Active Suspension proactively makes split-second decisions based on operator inputs, controlling the shocks to achieve optimum performance, control, and stability under varying riding conditions and driving styles.

DYNAMIX ACTIVE SUSPENSION (IF EQUIPPED)

WARNING

Do not enter information while operating your vehicle. Failure to pay attention to operating your vehicle could result in loss of control, injury, or death. You assume all risks associated with using this device. Read your User Guide. Always ride with the latest maps and trails data from ridecommand.polaris.com.

Your vehicle is equipped with an advanced Ride Command display. The suspension control screen provides additional information about the operation of your Dynamix Active Suspension system.



- | | |
|--------------------------------|--------------------------------------|
| ① Current Suspension Ride Mode | ⑤ Active Vehicle Event State Pop-ups |
| ② Accelerator Pedal Position | ⑥ Steering Angle |
| ③ Vehicle Speed | ⑦ G-Meter |
| ④ Brake Status | ⑧ Current Damping Setting |

DYNAMIX™ SYSTEM COMPONENTS

SUSPENSION CONTROL MODULE (SCM)

The Suspension Control Module (SCM) contains the logic for suspension control, including communications, operator inputs, and shock drivers. The SCM also has an internal 6-axis inertial measurement unit which is used to monitor the performance of the vehicle by the suspension control algorithms.

CAUTION

Moving or altering the SCM may have an adverse effect on vehicle handling. Never move the SCM from its factory mounting location.

ELECTRONIC POWER ASSISTED STEERING (EPAS)

The Electronic Power Assisted Steering (EPAS) system has been enhanced with a steering angle sensor to provide steering angle information to the SCM.

DYNAMIX™ SYSTEM FEATURES

VEHICLE SPEED SENSITIVITY

The system continuously monitors the speed of the vehicle and adjusts to a base level of compression and damping for a given vehicle speed depending on the mode selected by the user.

CORNERING CONTROL

The system continuously monitors steering angle, lateral acceleration, and vehicle yaw rate to provide enhanced cornering control, reducing body roll for maximum performance.

BRAKING

The system continuously monitors the brake pedal position and vehicle deceleration rate, reducing body motion, and increasing available compression travel for braking into harsh terrains.



DYNAMIX ACTIVE SUSPENSION (IF EQUIPPED)

ACCELERATION

The system continuously monitors vehicle speed, and accelerator pedal position to increase damping of the rear shocks under high straight line acceleration conditions to keep the vehicle level.



AIRBORNE DETECTION

The system continuously monitors the state of the vehicle using its 6-axis inertial measurement unit. When low-g situations are encountered, the system provides maximum damping until the low-g situation is no longer present, after which it reverts back to the user-selected drive mode.



ADVANCED DIAGNOSTICS

The system continuously monitors the health and state of all input and output signals. If a fault is detected, the system reverts to a safe operating state and alerts the operator of a component or system problem.

PROCESSING CAPABILITY

DYNAMIX™ Active Suspension controls current to the shock valve 1000 times per second, performs vehicle dynamics calculations 200 times per second, and can actuate a shock from soft to firm approximately 20 times per second.

DYNAMIX MODE SWITCH

This RZR is equipped with a suspension control mode switch that allows you to change the suspension control mode of your DYNAMIX™ Active Suspension system on-the-fly. There are 3 available drive modes to select from: Comfort, Sport, and Firm.

WARNING

The rider should use caution to select the appropriate ride mode to match the current terrain conditions and driving style. Failure to select an appropriate ride mode could lead to vehicle dynamic behaviors not matched to the terrain or driver's skill level.

NOTICE

The system will prevent mode transitions from a more firm operating mode to a more soft operating mode when a current active vehicle state is present (cornering, braking, accelerating, or airborne).

COMFORT

In Comfort mode, the suspension control system is primarily optimized for rider comfort, intervening in performance situations where required. The system will gradually increase the base value of damping as vehicle speed increases. Cornering, braking, acceleration, and airborne detection algorithms are fully active.



DYNAMIX ACTIVE SUSPENSION (IF EQUIPPED)

SPORT

In Sport mode, some level of rider comfort is traded for higher performance levels and reduced body motion. Damping ramps up more aggressively as a function of vehicle speed. This mode is recommended for spirited driving where additional suspension system performance is required. All active features are enabled in this mode.



FIRM

In Firm mode, the suspension reverts to its most firm compression damping setting. This mode is recommended for challenging terrain where large suspension travel events and complex terrain are encountered.



If your vehicle is equipped with Instantaneous Compression the suspension compression damping reverts to a firm base-damping setting with aggressive active vehicle events to respond to harsh terrain. If your vehicle is not equipped with Instantaneous Compression, all 4 shocks are set to the most firm setting.

INSTANTANEOUS COMPRESSION (IF EQUIPPED)

The Instantaneous Compression button allows you to immediately apply full compression damping to all 4 shocks in any handling mode for the full duration of holding the button plus a short delay time. This is intended to be used when encountering unsuspected vehicle events or obstacles to avoid bottom-out or occupant discomfort.

DEMONSTRATION MODE

“Demo” Mode allows the operator to experience the feel associated with each Ride Mode before actual use. Activate “Demo” Mode by placing the vehicle in Park (P) and turning off the engine, then turn the ignition key switch to the ON position. The operator can cycle through the different Ride Modes using the UP or DOWN arrow buttons, then use the throttle, brakes, and steering wheel to assess the feel of each Ride Mode.

DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

OVERVIEW

 **WARNING**

Driving while distracted can result in loss of vehicle control, crash, and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off of driving. Your primary responsibility is the safe operation of your vehicle.

DYNAMIX DV Active Suspension (if equipped) offers unprecedented control and comfort for any riding condition you experience with your *RZR*. The DYNAMIX DV Active Suspension is an electronically controlled suspension system designed to optimize vehicle comfort and handling through continuously monitoring the driver's inputs and vehicle motion, to control the suspension in real-time.

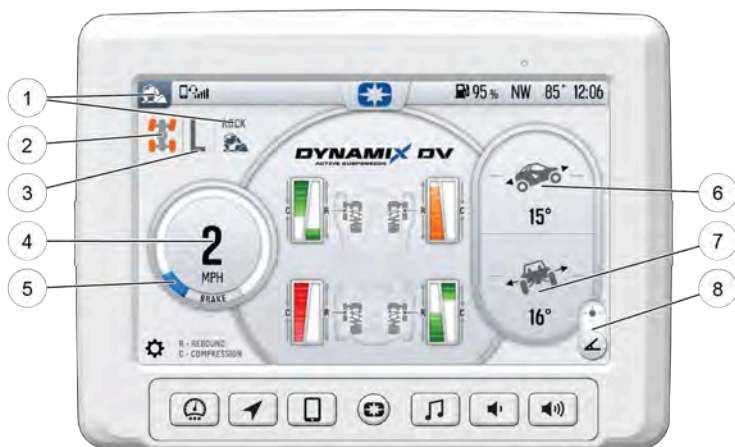
DYNAMIX DV Active Suspension features FOX® electronically controlled shocks driven by a custom Polaris-designed suspension control module (SCM). The suspension control algorithms and software were designed and developed by Polaris' engineering team, leveraging our expertise and deep knowledge of off-road vehicle dynamics. DYNAMIX DV Active Suspension proactively makes split-second adjustments based on operator inputs, controlling the shocks to achieve optimum performance, control, and stability under varying riding conditions and driving styles.

DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

WARNING

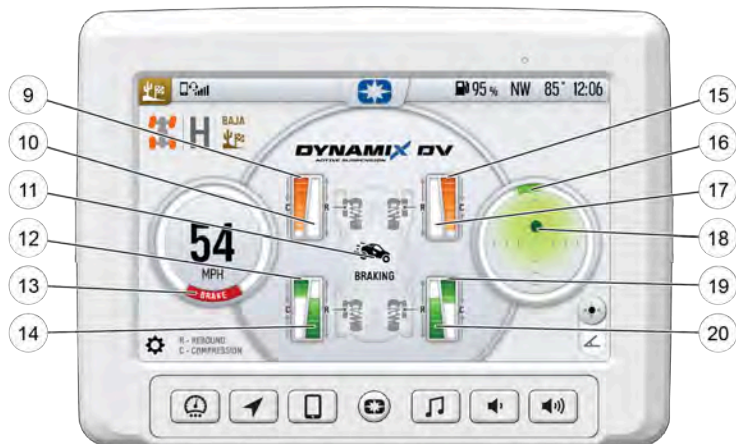
Do not enter information while operating your vehicle. Failure to pay attention to operating your vehicle could result in loss of control, injury, or death. You assume all risks associated with using this device. Read your User Guide. Always ride with the latest maps and trails data from ridecommand.polaris.com.

Your vehicle is equipped with an advanced Ride Command display. The suspension control screen provides additional information about the operation of your DYNAMIX DV Active Suspension system.



- | | |
|----------------------------|------------------------------|
| ① Ride Mode Indicator | ⑤ Accelerator Pedal Position |
| ② Driveline Mode Indicator | ⑥ Pitch Angle |
| ③ Gear Indicator | ⑦ Roll Angle |
| ④ Vehicle Speed | ⑧ Angle/G-ball Selector |

DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)



- ⑨ Front Left Compression Damping
- ⑩ Front Left Rebound Damping
- ⑪ Event Indicator
- ⑫ Rear Left Compression Damping
- ⑬ Brake Switch
- ⑭ Rear Left Rebound Damping
- ⑮ Front Right Compression Damping
- ⑯ Steering Angle
- ⑰ Front Right Rebound Damping
- ⑱ G-ball (Longitudinal/Lateral Acceleration)
- ⑲ Rear Right Compression Damping
- ⑳ Rear Right Rebound Damping

COMPRESSION AND REBOUND SWEEP

NOTICE

Compression sweep shown. Rebound sweep works similarly but from the bottom.



① Softer

② Stiffer

DYNAMIX DV SYSTEM COMPONENTS

SUSPENSION CONTROL MODULE (SCM)

The Suspension Control Module (SCM) contains the logic for suspension control, including communications, operator inputs, and shock drivers. The SCM also has an internal 6-axis inertial measurement unit which is used to monitor and adjust the performance of the vehicle by the suspension control algorithms.



Moving or altering the orientation of the SCM may have an adverse effect on vehicle handling. Never move the SCM from its factory mounting location.

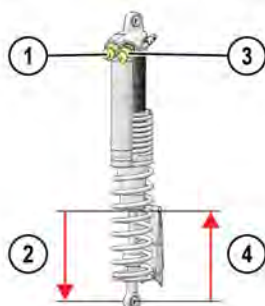
ELECTRONIC SHOCK DAMPING CONTROL

Your suspension has electronically controlled, independent compression and rebound shock damping. This is used to control how fast the shocks compress and extend.

Compression Damping: Force acting against a shock movement in the compressing direction (shock length becoming shorter). When a shock is being compressed, lower compression damping results in faster compression movement and higher compression damping results in a stiffer, slower compression movement.

Rebound Damping: Force acting against a shock movement in the extension direction (shock length becoming longer). When a shock is being extended, lower rebound damping results in faster extension movement and higher rebound damping results in a slower extension movement.

- ① Rebound Valve
- ② Rebound Damping
- ③ Compression Valve
- ④ Compression Damping

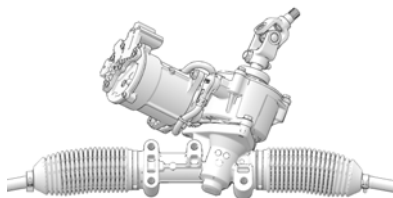


DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

ELECTRONIC STEERING RACK (EPS)

This vehicle also has an electronically controlled power steering rack that has been developed to work with the DYNAMIX DV system in multiple ways:



- This power steering has modes that adjust the power steering performance to the DYNAMIX DV ride setting.
- Damping logic allows for the EPS to maximize assist levels.
- The power steering logic was specifically tuned to counteract hits coming from the vehicle wheels and isolate the driver from feeling these torque spikes in their hands.





These electronically controlled systems work together to provide a full vehicle ride and handling mode that can be easily selected by the driver.

DYNAMIX DV RIDE MODES

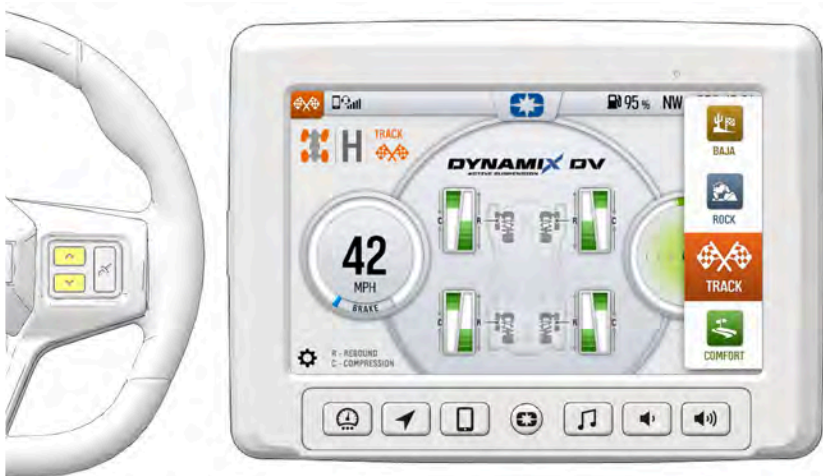
There are four Ride Modes with pre-defined suspension and steering settings to tailor the ride and handling to known uses and conditions. The Ride Modes are summarized below.

ICON	NAME	SUSPENSION DESCRIPTION	ELECTRONIC POWER STEERING DESCRIPTION
	Baja Mode	High compression and low rebound damping for large and aggressive suspension events.	Good feeling of the front wheels with excellent bump rejection.
	Rock Mode	High compression and low rebound with angle based damping adjustments for maneuvering through rockier terrain. At higher vehicle speeds, damping becomes similar to Comfort Mode.	High assist level and bump rejection for low steering effort when maneuvering in rocks.

DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

ICON	NAME	SUSPENSION DESCRIPTION	ELECTRONIC POWER STEERING DESCRIPTION
	Track Mode	Medium compression and high rebound damping for aggressive cornering events.	Best feeling of the front wheels for aggressive cornering events.
	Comfort Mode	Low compression and rebound damping to allow the shock to move and absorb smaller suspension events.	High assist level and bump rejection for low steering effort and maximum comfort.

Ride Modes can be cycled through using the “up/down” button on the steering wheel. It will not cycle from top to bottom with an “up” button press.



Notice the Mode Slide Out panel shows the active mode and the order/position. Ride Modes are described in more detail in the following sections.

BAJA MODE

MODE CHARACTER

- Trophy truck
- High dynamic ride height
- Loose body movement
- Nose high (front end high)
- Ideal for rough/large input terrain



USE AREAS

- Desert/Baja
- Whoops
- Sand highway in Glamis

WHAT THE SUSPENSION IS DOING

Compression Damping: High compression damping for absorbing bumps and not bottoming out in deep holes.

Rebound Damping: Low rebound damping allowing maximum shock extension for absorbing next bump. Slightly more rebound damping in the rear to stabilize chassis and provide front high feel.

Active Events: Very aggressive vehicle events so cornering, braking, and acceleration can still be done aggressively. On short duration Airborne events the dampers are biased to keep the nose high so that the vehicle leans back when traversing whoops.

WHAT THE STEERING SYSTEM IS DOING

Large input bump rejection. Medium assist level with a good balance between feeling the front-end grip and turning effort.

DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

ROCK MODE

MODE CHARACTER

Developed for rock crawling. It maximizes ride height and improves pitch and roll stability during slow speed crawling maneuvers. Ideal for driving over obstacles and traversing hill peaks. Incorporates Angle Based Damping.

Phases to Comfort Mode at higher speeds.



USE AREAS

- Slow speed rock crawling
- Moab
- Technical sections of King of Hammers

WHAT THE SUSPENSION IS DOING

Compression Damping: Damping is increased on downhill side shocks and decreased on uphill shocks to lean the vehicle into the obstacle or slope.

Rebound Damping: Low rebound damping when level to promote shock extension and increase ground clearance. Damping is increased on uphill shocks to lean the vehicle into the obstacle or slope.

Active Events: Angle based damping is active at low speeds. At high vehicle speeds this mode is the same as Comfort Mode.

WHAT THE STEERING SYSTEM IS DOING

Large input bump rejection. High assist level so that the driver does not become fatigued while rock crawling.

EXAMPLES OF USE

When the Vehicle is Level: Maximize ground clearance for obstacle avoidance with high compression damping and low rebound damping. Low rebound damping allows the tire to fall into the rock holes quickly not upsetting the chassis.

On Slope: Lean the vehicle into the hill with shocks. Increased compression and decreased rebound downhill. Decreased compression and increased rebound uphill.

TRACK MODE

MODE CHARACTER

Brings aggressive flat cornering, lowest dynamic ride height, and the best tire grip and feedback. The vehicle rides with a lower stance that is ideal for heavy turning trails, hard pack and small/medium bumps.



USE AREAS

- Aggressive cornering
- Dune (in the dunes)
- Short course racing
- Tight twisty trails

WHAT THE SUSPENSION IS DOING

Compression Damping: Medium compression damping for a low dynamic ride height and tight feeling vehicle.

Rebound Damping: High rebound damping for a low dynamic ride height and tight feeling vehicle.

Active Events: Very aggressive vehicle events, cornering, braking, and acceleration. This mode keeps the vehicle flat and stable with balanced tractions for cornering.

WHAT THE STEERING SYSTEM IS DOING

Medium assist level so that the driver has the best feel of the front-end grip. Bump rejection features are still aggressive to minimize torque spikes felt in the steering wheel.

DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

COMFORT MODE

MODE CHARACTER

Developed to maximize ride comfort to give the passengers a “plush” ride. Ideal for non-aggressive driving and rides with smaller suspension inputs, such as cruising home at the end of the day.



USE AREAS

- Any non-aggressive driving
- Washes

WHAT THE SUSPENSION IS DOING

Compression Damping: Low damping to maximize ride comfort.

Rebound Damping: Low damping to maximize ride comfort.

Active Events: Low aggressiveness on the active events. They respond as needed but are tuned to optimize ride comfort.

WHAT THE STEERING SYSTEM IS DOING

High assist level to make the vehicle easy to steer and reduce operator fatigue. High input bump rejection.

DYNAMIX DV SYSTEM FEATURES

NOTE

These features are tuned differently based on the selected Ride Mode.

ACTIVE PITCH CONTROL

Dynamix DV constantly monitors pedal input and engine torque to predict when the vehicle is going to pitch forward or backward and applies damping to control the motion. This functions at all speeds and scales based on how much the throttle position is changing and how hard the vehicle is expected to pitch.

ACCELERATION CONTROL

The system continuously monitors vehicle speed, accelerator pedal position, and engine torque to reduce vehicle pitch body motion and optimize damping for different types of vehicle acceleration. For example, when you hit the accelerator pedal from a stop, the dampers are optimized based on which ride mode selected to achieve the desired pitch and traction response.



DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

BRAKING CONTROL

The system continuously monitors the brake pedal position and vehicle deceleration rate reducing body motion and increasing braking stability in harsh terrains. This is the opposite of Acceleration Control. During hard braking events, the system will increase front compression to prevent vehicle nose dive, soften the rear compression damping to absorb braking bumps, and increase the rear rebound damping to control vehicle pitch.



CORNERING CONTROL

Shock compression and rebound damping are adjusted when cornering. The inside shocks increase in rebound damping while the outside shocks increase compression to control body roll. The inside shocks decrease in compression to stabilize the vehicle for any bumps on the inside wheels while the outside shocks may reduce rebound in some cases to promote traction.

- The outside shocks will resist compression and the inside shocks will resist extension.
- Damping biases front to rear throughout the corner entry, apex, and exit.



Example maneuvers include turning and cornering.

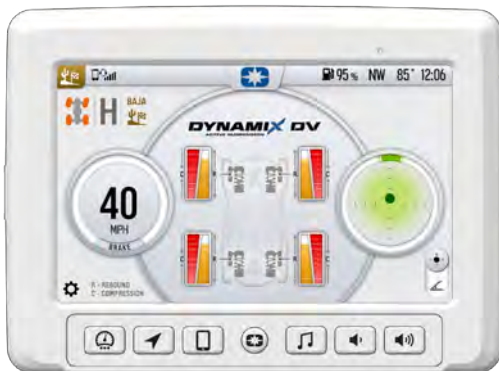
AIRBORNE EVENT CONTROL

The Dynamix DV system is constantly and automatically detecting for when the vehicle is airborne and when the vehicle has landed. The Dynamix system updates damping while airborne and post landing to optimize the vehicle response immediately after the airborne event.

- **While Airborne:**
Rebound damping is reduced to promote shock extension while compression is increased to 100% to ensure a nice plush landing.



- **After Landing:**
Rebound damping is increased to stabilize the landing and prevent loss of wheel traction or hopping of the vehicle.



The damping application is biased based on airborne duration so the vehicle has optimized performance in large airborne events and small airborne events like whoops. As the vehicle is airborne longer, the compression damping will gradually increase to maximize the bottom out performance when landing.

Example maneuvers include: Large whoops that cause an airborne event, Glamis jumps, Short course race jumps, and Jumps.

DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

ANGLE-BASED DAMPING

When riding on a slope or navigating obstacles, the shock dampers adjust based on the angle to lean the vehicle into the hill.

- Increases compression and decreases rebound for downhill wheels.
- Decreases compression and increases rebound for uphill wheels.



When riding on flat ground, the shocks adjust to maximize ground clearance for obstacle avoidance with high compression damping and low rebound damping.

- High compression damping keeps the shocks extended which increases the ride height and ground clearance while traversing obstacles.
- Low rebound damping allows the tire to fall into the rock holes quickly not upsetting the chassis.



NOTE

This is used only in Rock Mode and at speeds less than 15 mph (24 km/h).

Example maneuvers include: Slow driving on banked turn, Side hilling, and Circles on hill.

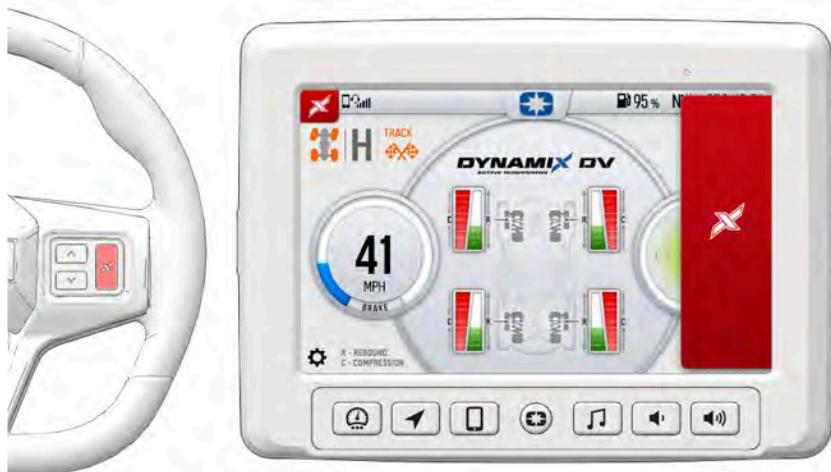
DYNAMIX DV ACTIVE SUSPENSION (IF EQUIPPED)

DYNAMIX INSTANT COMPRESSION BUTTON

When the DYNAMIX button is pressed, the system will increase compression damping to improve bottom out performance. The increased compression will persist as long as the button is pressed and momentarily after the button is released. This allows the vehicle to better absorb what the driver will encounter ahead, such as an obstacle, a hole on the trail or a G-Out when dune riding. Rebound damping is not affected by the DYNAMIX button and still operates based on the ride mode selected and the vehicle state.

NOTE

This feature behaves the same way in each Ride Mode.



MAINTENANCE

CARE AND MAINTENANCE

To clean the display shell, use a soft cloth with mild soap and water. Do not use harsh or abrasive cleaners. For best results, use a micro-fiber towel to clean the screen. Window cleaner or alcohol may also be used.

NOTICE

Immediately clean off any gasoline that splashes onto the display.

VEHICLE STORAGE

When preparing the vehicle for storage make sure the ignition switch is in the OFF position to prevent battery drain and diminished battery life.

SPEED LIMITATION

Various aspects of the display such as phone contacts and call logs may be unavailable while driving at high speeds.

UPDATE SOFTWARE

NOTICE

Before updating the display, always export your existing rides and waypoints to a USB drive to avoid losing them.

To update the software, do the following:

DOWNLOAD SOFTWARE ONTO YOUR PERSONAL COMPUTER

1. Go to ridecommand.polaris.com/display.
2. Log into your account, or create a new account.
3. Using the Vehicle Identification Number (VIN), add your new Polaris vehicle to your Garage.
4. Locate and download the latest software to a USB flash drive (8+ GB).

UPLOAD SOFTWARE ON YOUR VEHICLE

1. Connect the USB flash drive to the USB cable and power up your vehicle.
2. On the RIDE COMMAND display, select the Settings menu on your display by pressing the POLARIS icon at the top of the screen.
3. Select General Settings, then Update Software.

MAINTENANCE

4. Select the file you wish to load (use date listed in the file name to determine most recent file).
5. Select Yes to restart display (restart required).

ERROR MESSAGES

If an error occurs while updating your software, perform one or all of the following actions to resolve the issue:

1. Remove and reconnect the USB flash drive securely.
2. Make sure the display files are not inside a folder on the flash drive.
3. Make sure only display files are on the flash drive. Remove any other files if necessary.
4. Try using a different USB flash drive.

UPDATE MAPS

To update the maps on your display, do the following:

1. Go to ridecommand.polaris.com/display and download the map update to a USB flash drive.
2. Insert USB flash drive into the USB port on your vehicle.
3. Press the Update maps in the General Settings.
4. Select the file you want to install by pressing the corresponding down arrow icon.
5. This will update the display's map which will automatically restart the display once the update is complete. Do not remove the USB flash drive until the display has fully restarted.

USB HARDWARE

SOFTWARE UPDATES

For software update, POLARIS recommends using a SanDisk® or similar USB flash drive with a minimum of 1GB in available memory, formatted using the exFAT® file system. For best results remove all files from the flash drive before starting the update process.

MAP, TRAIL AND POINT OF INTEREST UPDATES

For Map, Trail and Point of Interest updates, a 32GB or larger USB drive is required (USB 3.0 drive is highly recommended). USB drive must be formatted to exFAT® before copying files onto it.

A	
Acceleration	58
Advanced Diagnostics	58
Airborne Detection	58
Audio Screen	45
Auto Plow Mode	49
B	
Badge Panel	26
All Settings Button	27
Before You Ride	9
Braking Anti-Dive	57
C	
Care and Maintenance	79
Compression and Rebound	
Sweep	65
Controls	26
Copyright Information	2
Cornering Control	57
Current Ride	34
D	
Device Compliance Statements	10
Display Mode	27
Dynamix	
Demonstration Mode	61
Dynamix Active Suspension	55
DYNAMIX DV Active Suspension	
Overview	63
DYNAMIX DV Ride Modes	67
Baja Mode	69
Comfort Mode	72
Rock Mode	70
Track Mode	71
DYNAMIX DV System	
Components	66
DYNAMIX DV System Features	73
Acceleration Control	73
Active Pitch Control	73
Airborne Event Control	75
Angle-based Damping	76
Braking Control	74
Cornering Control	74
DYNAMIX Instant Compression	
Button	77
DYNAMIX Mode Switch	59
Dynamix System Components	57
E	
Engine Overheat Indicators	53
G	
Game Camera	28
Gauge Screen	29
Go to Nav	33
GPS	53
Group Ride	36
Creating a Ride Group	40
Group Ride Setup	37
H	
Home Screen	29
I	
Instantaneous Compression	61
J	
Joining a Ride Group	39
M	
Manual Plow Mode	49
Map Gauges	41
Map Layers	41
Map Menu	33
Map Orientation	32
Map Screen	31

Media Viewer.....	28
Menu Button.....	25

N

Notifications	26
---------------------	----

P

Phone Screen.....	42
Plow Mode.....	48
Plow Mode Faults.....	50
Plowing in High Range.....	50
Points of Interest (POI)	32
Power Button.....	25
Processing Capability.....	58

R

Radio Compliance Statements	12
Regulatory Information	14
Ride Command	
Buttons	19
Driveline Mode.....	21
Gauge View Mode	22
Icon Bar.....	23
Overview	19
Pin Activated Security System (P.A. S.S.)	47
Settings.....	22
Rides and Places	35
Riding with a Group.....	40

S

Safety Symbols	4, 8
Screen Brightness	27
Settings.....	51
Signal Words.....	4, 8
Speed Limitation	79

U

Update Maps.....	80
Update Software	79
USB Hardware.....	80

V

Vehicle Speed Sensitivity	57
Vehicle Storage.....	79

W

Warning Symbols	4, 8
Waypoints.....	34

Z

Zoom.....	31
-----------	----



For your nearest Polaris dealer,
call 1-800-POLARIS (765-2747)
or visit www.polaris.com

Polaris Industries Inc.
2100 Highway 55
Medina, MN 55340



Part No. 9939929 Rev 02
Printed in USA