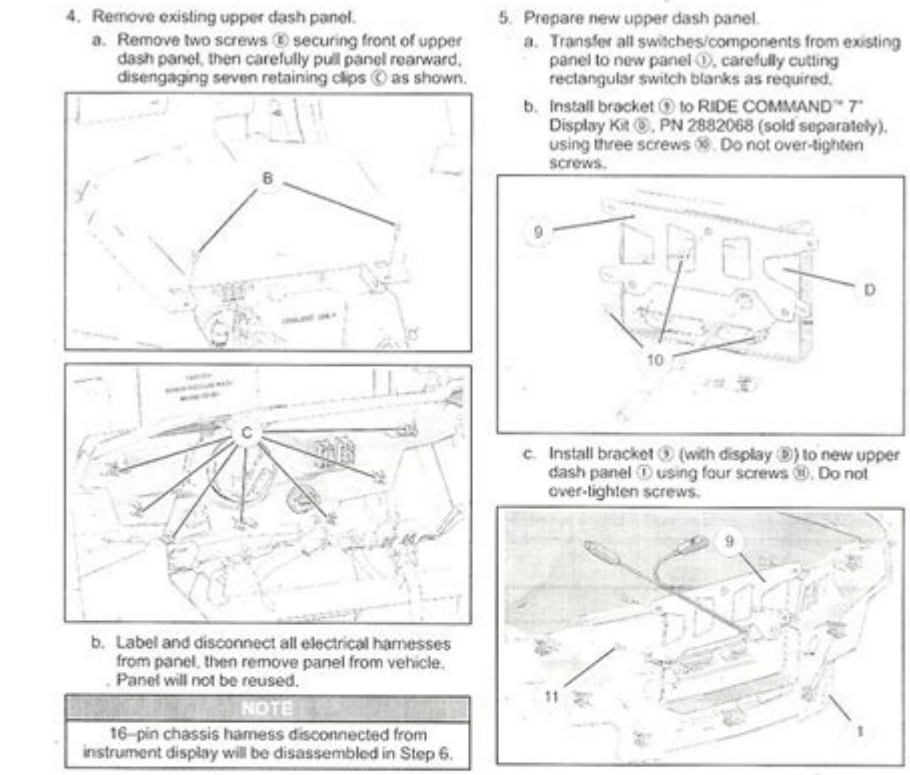
Polaris Ride Command Wiring Diagram



4. Remove existing upper dash panel.
   a. Remove two screws ⓔ securing front of upper dash panel, then carefully pull panel rearward, disengaging seven retaining clips Ⓒ as shown.

B

C

   b. Label and disconnect all electrical harnesses from panel, then remove panel from vehicle. Panel will not be reused.

NOTE

16–pin chassis harness disconnected from instrument display will be disassembled in Step 6.

5. Prepare new upper dash panel.
   a. Transfer all switches/components from existing panel to new panel ①, carefully cutting rectangular switch blanks as required.
   b. Install bracket ⑨ to RIDE COMMAND™ 7" Display Kit ⓓ, PN 2882068 (sold separately), using three screws ⑩. Do not over-tighten screws.

9

D

10

   c. Install bracket ⑨ (with display ⓓ) to new upper dash panel ① using four screws ⑩. Do not over-tighten screws.

9

11

1

Instr 9927323 Rev 01 2016-09 Page 3 of 9

Polaris Ride Command Wiring Diagram is an essential tool for anyone looking to understand the electrical system of their Polaris ATV or UTV. The Polaris Ride Command is a high-tech feature that integrates GPS, ride tracking, and communication with other riders. To harness its full potential, it's crucial to understand the wiring diagram that connects various components of the system. This article will delve into the specifics of the Polaris Ride Command wiring diagram, its components, installation process, troubleshooting tips, and maintenance best practices.

Understanding Polaris Ride Command

The Polaris Ride Command system was developed to enhance the riding experience by providing real-

time information about the vehicle's performance, navigation features, and connectivity with other riders. It is integrated with a touchscreen display, which allows riders to access various functionalities, including:

1. GPS Navigation: Provides maps and routes for off-road adventures.
2. Vehicle Diagnostics: Monitors the health and performance of the ATV or UTV.
3. Rider Communication: Connects with other Polaris vehicles for enhanced group riding experiences.
4. Ride Tracking: Enables users to track their rides and share them with friends.

Understanding the wiring diagram for this system is crucial for installation, troubleshooting, and maintenance.

Components of the Wiring Diagram

To fully appreciate the Polaris Ride Command wiring diagram, it's essential to identify its key components. The wiring diagram typically includes:

1. Ride Command Display Unit

The Ride Command display is the central hub of the system. It connects to various sensors and modules, providing the rider with essential data.

2. Power Supply Wiring

This includes the wiring that connects the Ride Command system to the vehicle's battery. It typically consists of:

- Positive and negative cables
- Fuses or circuit breakers for safety

3. Sensors and Modules

Various sensors are integrated into the Polaris system, including:

- GPS module
- Speed sensors
- Engine temperature sensors
- Fuel level sensors

These sensors relay important information back to the display unit.

4. Communication Wires

These wires enable the Ride Command system to communicate with other Polaris vehicles. This may include:

- Bluetooth connections
- Wiring for intercom systems

Reading the Wiring Diagram

A Polaris Ride Command wiring diagram can seem complex at first glance. However, understanding how to read it will significantly enhance your ability to install and troubleshoot the system.

1. Symbols and Codes

Familiarize yourself with the symbols used in the wiring diagram. Common symbols include:

- Lines for wires (solid lines typically represent positive, while dashed lines represent ground)
- Boxes for components (such as fuses, sensors, and the display unit)
- Arrows indicating the direction of electrical flow

2. Color Coding

Most wiring diagrams utilize color coding for easier identification of wires. Common colors include:

- Red: Positive power supply
- Black: Ground
- Yellow: Communication lines
- Green: Sensor lines

3. Layout and Flow

The layout of the wiring diagram shows how different components are connected. Follow the flow from the power supply to the display and then to the various sensors and modules. This will assist you in understanding the entire system.

Installation Process

Installing the Polaris Ride Command system requires careful attention to detail. Below is a step-by-step guide to help you through the installation process.

1. Gather Necessary Tools and Components

Before starting, ensure you have the following tools and components:

- Polaris Ride Command kit
- Screwdrivers (flathead and Phillips)
- Wire cutters/strippers
- Electrical tape
- Multimeter (for testing connections)

2. Disconnect the Battery

Safety is paramount. Always disconnect the vehicle's battery before starting any electrical work to prevent short circuits and accidental shocks.

3. Install the Display Unit

- Choose a suitable location for the display unit that is easily visible to the rider.
- Secure the display using the provided brackets and screws.
- Connect the power supply wires as per the wiring diagram.

4. Connect Sensors and Modules

- Follow the wiring diagram to connect each sensor and module.
- Use electrical tape to secure connections and prevent moisture ingress.

5. Reconnect the Battery and Test the System

Once all connections are complete, reconnect the battery. Power on the Ride Command system and check for any error messages. Ensure that all features, such as GPS and diagnostics, are functioning correctly.

Troubleshooting Common Issues

Despite careful installation, issues may still arise. Here are some common problems and troubleshooting tips:

1. No Power to the Display Unit

- Check Connections: Ensure that all power supply wires are connected correctly.
- Test Voltage: Use a multimeter to confirm that the display unit is receiving power.

2. GPS Not Functioning

- Check GPS Antenna: Ensure the GPS antenna is properly installed and unobstructed.
- Inspect Wiring: Look for any damaged or disconnected wires leading to the GPS module.

3. Communication Issues with Other Riders

- Bluetooth Connection: Ensure that Bluetooth settings are enabled on both devices.
- Check Wiring: Inspect communication wires for continuity and proper connections.

Maintenance Best Practices

To ensure the longevity and reliability of the Polaris Ride Command system, follow these maintenance tips:

1. Regular Inspections

Conduct regular inspections of the wiring and connections. Look for signs of wear, corrosion, or damage.

2. Clean Connections

Keep all electrical connections clean and free from dirt and moisture. Use electrical contact cleaner for best results.

3. Update Software

Check for software updates for the Ride Command system. Manufacturers often release updates that improve performance and fix bugs.

4. Protect Against Moisture

Ensure that all connections are sealed and protected against moisture. Use heat-shrink tubing or electrical tape to safeguard connections.

Conclusion

Understanding the Polaris Ride Command wiring diagram is crucial for anyone looking to install, troubleshoot, or maintain their Polaris ATV or UTV. By familiarizing yourself with the components, learning how to read the wiring diagram, and following a structured installation process, you can significantly enhance your riding experience. Regular maintenance and troubleshooting will ensure that your Ride Command system remains functional and reliable for years to come. Whether you're an avid off-road enthusiast or a casual rider, mastering the intricacies of the wiring diagram will empower you to make the most of your Polaris vehicle.

Frequently Asked Questions

What is the purpose of the Polaris Ride Command wiring diagram?

The Polaris Ride Command wiring diagram is used to understand the electrical connections and components of the Ride Command system, helping users troubleshoot, install, or modify the system effectively.

Where can I find the Polaris Ride Command wiring diagram?

You can find the Polaris Ride Command wiring diagram in the owner’s manual, service manual, or on the official Polaris website under the support or resources section.

Is the wiring diagram for Polaris Ride Command the same for all models?

No, the wiring diagram for Polaris Ride Command may vary between different models and years, so it's important to refer to the specific diagram for your vehicle model.

What tools do I need to work with the Polaris Ride Command wiring diagram?

You will typically need a multimeter, wire strippers, electrical tape, and possibly soldering equipment, along with the wiring diagram for proper guidance.

Can I modify the wiring of the Polaris Ride Command system?

Yes, you can modify the wiring as long as you follow safety guidelines and ensure that any modifications are compatible with the Ride Command system to prevent malfunctions.

What are common issues related to the Polaris Ride Command wiring?

Common issues include poor connections, damaged wires, and compatibility problems with aftermarket accessories, which can lead to system malfunctions or failures.

How can I troubleshoot problems using the Polaris Ride Command wiring diagram?

To troubleshoot, compare the wiring connections in the diagram with the actual connections in your vehicle, check for continuity in wires, and identify any discrepancies or damaged components.

Polaris Ride Command Wiring Diagram

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