Injector problems due to dirt or clogging are unlikely due to the design of the injectors, the high fuel pressure, the use of filters and the detergent additives in the gasoline. Symptoms that could be caused by dirty/clogged injectors include rough idle, hesitation/stumble during acceleration, or triggering of fault codes related to fuel delivery. Injector clogging is usually caused by a buildup of deposits on the director plate, restricting the flow of fuel, resulting in a poor spray pattern. Some contributing factors to injector clogging include; dirty air filters, higher than normal operating temperatures, short operating intervals and dirty, incorrect, or poor quality fuel. Cleaning of clogged injectors is not recommended; they should be replaced. Additives and higher grades of fuel can be used as a preventative measure if clogging has been a problem.

#### **Fuel Injector Resistance Test**

If an injector is not operating, it can indicate either a bad injector, or a wiring/electrical connection problem. Check as follows:

- Using an ohmmeter, test for continuity by placing the test leads on each pin of the injector.
- Resistance specification is 12.0α ±0.4α (20°C, 68°F)

Injector Resistance Specification: 12.0Ω ±0.4Ω (20°C, 68°F)

#### Fuel Injector Replacement

- Engine must be cool. Depressurize fuel system through test valve in fuel rail.
- 2. Remove the front fender assembly and fuel tank.
- Thoroughly clean the area around and including the throttle body/manifold and the injectors.
- 4. Disconnect the fuel injector harness.
- Remove the fuel rail mounting screws, doubler plate and carefully loosen / pull the rail away from the injector.
- Reverse the procedures to install the new injector and reassemble.

Lubricate the upper O-ring lightly with soapy water to aid installation. The lower O-ring should remain dry. Torque the fuel rail mounting screws to 5~7 ft. lbs. (6-9 Nm). Then install the doubler plate and torque to 8-9.5 ft. lbs. (11-13 Nm).



Fuel Rail Mounting Screws: 5-7 ft. lbs. (6-9 Nm)

Doubler Plate Screws 8~9.5 ft. lbs. (11-13 Nm)

# CRANKSHAFT POSITION SENSOR (CPS)

#### General Information

The engine speed sensor is essential to engine operation, constantly monitoring the rotational speed (RPM) of the crankshaft.



A ferromagnetic 36-1 ring gear is east onto the flywheel. The inductive crankshaft sensor is mounted 0.4 - 1.2 mm (0.015 - .047 in.) away from this ring gear. During rotation, an AC pulse is created within the sensor for each passing tooth. The tooth gap creates an "interrupt" input signal, corresponding to specific crankshaft position for PTO cylinder. This signal serves as a reference for the control of ignition timing by the ECM.

#### Crankshaft Position Sensor Air Gap: 0.4 - 1.2 mm (0.015 - .047 in.)

Within one (1) revolution at start-up, the ECM calculates crankshaft position from the time interval between the consecutive pulses. Synchronization of the CPS, ECM and MAP sensor takes place during the first two (2) revolutions each time the engine is started. Once the engine is started, the ECM monitors the MAP sensor for the engine in take stroke. The CPS must be properly connected at all times. If the sensor fails or becomes disconnected for any reason, the engine will quit operating.

#### Crankshaft Position Sensor Test

The crankshaft position sensor is a sealed, non-serviceable assembly. If fault code diagnosis indicates a problem within this area, test and correct as follows:

- Disconnect main harness connector from ECM.
- Connect an ohmmeter between the pin terminals. A resistance value of 1850 ± 20% at room temperature (20° C, 68° F) should be obtained. If resistance is correct, check the mounting, air gap, toothed ring gear (damage, runout, etc.), and flywheel key.

Crankshaft Position Sensor Resistance: 185Ω ± 20% @ (20° C , 68° F)

# 6 Polaris Sportsman 450 500 Efi Atv Repair Manual

Alan Ahlstrand, Ken Freund

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- 1. Understanding the eBook 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - o The Rise of Digital Reading 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Personalized Recommendations
  - o 6 Polaris Sportsman 450 500 Efi Atv Repair Manual User Reviews and Ratings

- o 6 Polaris Sportsman 450 500 Efi Atv Repair Manual and Bestseller Lists
- 5. Accessing 6 Polaris Sportsman 450 500 Efi Atv Repair Manual Free and Paid eBooks
  - o 6 Polaris Sportsman 450 500 Efi Atv Repair Manual Public Domain eBooks
  - o 6 Polaris Sportsman 450 500 Efi Atv Repair Manual eBook Subscription Services
  - o 6 Polaris Sportsman 450 500 Efi Atv Repair Manual Budget-Friendly Options
- 6. Navigating 6 Polaris Sportsman 450 500 Efi Atv Repair Manual eBook Formats
  - o ePub, PDF, MOBI, and More
  - o 6 Polaris Sportsman 450 500 Efi Atv Repair Manual Compatibility with Devices
  - o 6 Polaris Sportsman 450 500 Efi Atv Repair Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Highlighting and Note-Taking 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - o Interactive Elements 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
- 8. Staying Engaged with 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
- 9. Balancing eBooks and Physical Books 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Setting Reading Goals 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Fact-Checking eBook Content of 6 Polaris Sportsman 450 500 Efi Atv Repair Manual
  - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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