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› All Balls Fuel Pump Kit (47-2002) Instruction Manual for Polaris Ranger

All Balls 47-2002

All Balls Fuel Pump Kit (47-2002) Instruction Manual

For Polaris Ranger 4x4 400, 500, and 6x6 500 Models

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your All Balls Fuel Pump Kit (47-2002). This kit is designed to restore lost performance or address non-functioning fuel pumps in compatible Polaris Ranger models. It includes all necessary components to rebuild the OEM fuel pump module, ensuring proper fuel delivery to your vehicle's engine.



Figure 1: A complete view of the All Balls Fuel Pump Kit (47-2002), showcasing the pump unit with its electrical connectors and fuel line ports.

2. PRODUCT COMPATIBILITY

The All Balls Fuel Pump Kit (47-2002) is compatible with the following Polaris Ranger models:

- Polaris Ranger 2x4 500 (2005 - 2009)
- Polaris Ranger 2x4 500 Built After 1/15/07 (2007)
- Polaris Ranger 2x4 500 Built Before 1/15/07 (2007)
- Polaris Ranger 4x4 400 (2010 - 2014)
- Polaris Ranger 4x4 500 (2004 - 2005)
- Polaris Ranger 6x6 500 (2004 - 2005)

Always verify part fitment with your vehicle's specific make, model, and year before installation.

3. KIT CONTENTS

Your All Balls Fuel Pump Kit (47-2002) includes the following components:

- Fuel Pump
- Fuel Filter
- Hoses (as necessary)
- Clamps (as necessary)
- Wiring Harness (as necessary)



Figure 2: The retail packaging for the All Balls Fuel Pump Kit (47-2002), displaying the brand logo and model number.

4. SETUP AND INSTALLATION

Installation of the fuel pump kit requires mechanical aptitude and adherence to safety precautions. It is recommended to consult a professional mechanic if you are unsure about any steps.

General Installation Guidelines:

1. **Safety First:** Disconnect the vehicle's battery and ensure the fuel system is depressurized before beginning work. Work in a well-ventilated area and have a fire extinguisher nearby.
2. **Locate the Fuel Pump:** Refer to your vehicle's service manual to identify the exact location of the fuel pump module.
3. **Disconnect Components:** Carefully disconnect the electrical connectors and fuel lines from the old fuel pump. Be prepared for residual fuel leakage.
4. **Remove Old Pump:** Unmount and remove the existing fuel pump module.
5. **Install New Pump:** Install the new All Balls fuel pump and associated components (filter, hoses, clamps, wiring harness) as per your vehicle's service manual instructions. Ensure all connections are secure and free of leaks.
6. **Reconnect and Test:** Reconnect the battery. Turn the ignition to the 'ON' position (without starting the engine) several times to prime the fuel system. Check for any fuel leaks. Start the engine and verify proper operation.

Visual Installation Aid:

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Video 1: This video demonstrates the general process of replacing a fuel pump in Polaris Ranger 400 and 500 models (1999-2012). It provides visual guidance for installation steps.

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Video 2: This video offers an unboxing and detailed overview of an electric fuel pump compatible with Polaris Ranger models, showcasing the physical components and connections.

5. OPERATING INSTRUCTIONS

After successful installation, the fuel pump operates automatically as part of your vehicle's fuel system. No specific user interaction is required for its operation beyond normal vehicle use.

- Ensure the fuel tank contains an adequate amount of the correct fuel type (Gasoline).
- Listen for the fuel pump priming sound (a brief hum) when the ignition is first turned on, indicating it is functioning.
- Monitor your vehicle's performance for consistent power delivery and absence of sputtering or hesitation, which could indicate fuel delivery issues.

6. MAINTENANCE

Regular maintenance of your vehicle's fuel system can extend the life of your fuel pump. While the fuel pump itself is generally a sealed unit, consider the following:

- **Fuel Filter Replacement:** Regularly replace your vehicle's fuel filter according to the manufacturer's recommendations. A clogged fuel filter can put undue strain on the fuel pump.
- **Fuel Quality:** Use high-quality fuel to prevent contaminants from entering and damaging the fuel pump.
- **Avoid Running on Low Fuel:** Consistently running your vehicle with a very low fuel level can cause the fuel pump to overheat as it relies on fuel for cooling.
- **Inspect Fuel Lines:** Periodically check fuel lines and connections for any signs of wear, cracks, or leaks.

7. TROUBLESHOOTING

If you experience issues after installing the fuel pump kit, consider these common troubleshooting steps:

- **Engine Cranks but Won't Start:**
 - Check for fuel in the tank.

- Listen for the fuel pump priming sound when the ignition is turned on. If no sound, check electrical connections and fuses.
- Verify fuel pressure with a gauge (requires specialized tools).
- **Engine Sputtering or Loss of Power:**
 - Inspect the fuel filter for clogging.
 - Check for kinks or obstructions in the fuel lines.
 - Ensure all electrical connections to the pump are secure.
- **Fuel Leaks:**
 - Immediately shut off the engine and disconnect the battery.
 - Inspect all fuel line connections and clamps for proper seating and tightness.
 - Replace any damaged hoses or seals.

If issues persist, consult your vehicle's service manual or a qualified mechanic.

8. SPECIFICATIONS

Feature	Specification
Brand	All Balls
Model Number	47-2002
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Polaris Ranger
Item Dimensions (L x W x H)	8.3 x 6.7 x 2.35 inches
Item Weight	1.11 pounds
Body Material	Alloy Steel
Inlet Connection Size	0.38 Inches
Inlet Connection Type	Hose Barb
Gas Type	Gasoline
Mounting Type	Tank Mount
Operation Mode	Mechanical
Product Grade	Replacement Part
OEM Part Number	Polaris Ranger 4x4 400 2010 2011 2012 2
UPC	635028967105

9. WARRANTY AND SUPPORT

For specific warranty information and detailed support regarding your All Balls Fuel Pump Kit (47-2002), please refer to the official All Balls Racing website or contact their customer service directly. Warranty terms and conditions may vary.

You can find more information about All Balls products by visiting the [All Balls Store](#).

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question