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Aramox 4014216

Aramox 4014216 Rear Wheel Speed Sensor Instruction Manual

For Indian Motorcycles

1. Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Aramox 4014216 Rear Wheel Speed Sensor. Please read this manual thoroughly before installation and retain it for future reference. Correct installation and adherence to these guidelines will ensure the sensor's optimal performance and longevity.

2. Product Overview

The Aramox 4014216 Rear Wheel Speed Sensor is a precision component designed to accurately measure the rotational speed of your motorcycle's rear wheel. This data is crucial for various vehicle systems, including the speedometer and anti-lock braking system (ABS), providing real-time information for dynamic adjustments and control. It is specifically engineered for high compatibility with Indian Motorcycles, matching OE number 4014216.



Image 2.1: The Aramox 4014216 Rear Wheel Speed Sensor, showing its main body, cable, and connector.

3. Safety Information

Always prioritize safety when working on your motorcycle. Failure to follow safety precautions can result in injury or damage to the vehicle.

- Ensure the motorcycle is stable and securely supported before beginning any work.
- Disconnect the battery's negative terminal before working on electrical components to prevent accidental short circuits.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- If you are unsure about any step, consult a qualified motorcycle mechanic.
- Refer to your motorcycle's service manual for specific torque specifications and procedures.

4. Package Contents

Verify that all components are present and undamaged upon opening the package:

- 1 x Aramox 4014216 Rear Wheel Speed Sensor

5. Installation Guide

This section outlines the general steps for installing the rear wheel speed sensor. Specific procedures may vary slightly depending on your Indian Motorcycle model. Always refer to your motorcycle's official service manual for detailed instructions.

5.1 Pre-Installation Checks

1. Confirm the new sensor (OE number 4014216) matches the original part for your Indian Motorcycle.
2. Inspect the new sensor for any visible damage.
3. Gather necessary tools, which typically include wrenches, screwdrivers, and possibly a torque wrench.

5.2 Removal of Old Sensor

1. Park the motorcycle on a level surface and secure it.
2. Locate the rear wheel speed sensor, typically mounted near the rear wheel hub or brake assembly.
3. Carefully disconnect the electrical connector from the old sensor. Observe the locking mechanism.



Image 5.1: Close-up view of the sensor's electrical connector, highlighting its design.

4. Unbolt the old sensor from its mounting point. Keep track of any washers or spacers.
5. Carefully remove the old sensor from its position.

5.3 Installation of New Sensor

1. Clean the mounting area thoroughly to ensure a proper fit and connection.
2. Insert the new Aramox 4014216 sensor into the mounting hole. Ensure it seats correctly.



Image 5.2: The Aramox 4014216 sensor, showing the sensor head and connector, ready for installation.

3. Secure the sensor with the original bolt(s) and washers. Tighten to the manufacturer's specified torque.
4. Connect the electrical connector to the new sensor. Ensure it clicks into place securely.
5. Route the sensor cable away from moving parts and heat sources, securing it with cable ties if necessary.



Image 5.3: Illustrative image showing a rear wheel speed sensor in context on a motorcycle, indicating its typical mounting location.

5.4 Post-Installation Checks

1. Reconnect the motorcycle battery.
2. Start the motorcycle and check for any warning lights related to the ABS or speedometer.
3. Perform a low-speed test ride in a safe area to confirm proper operation of the speedometer and ABS (if applicable).

6. Operating Principles

The Aramox 4014216 Rear Wheel Speed Sensor operates by detecting the rotation of a tone ring or reluctor wheel, typically located on the rear wheel hub or brake rotor. As the wheel spins, the tone ring's teeth pass by the sensor, generating a series of electrical pulses. The frequency of these pulses is directly proportional to the wheel's speed. This information is then transmitted to the motorcycle's Electronic Control Unit (ECU) or ABS control module, which uses it to calculate vehicle speed, control braking systems, and ensure stable operation.

7. Maintenance

The Aramox 4014216 Rear Wheel Speed Sensor is designed for durability and minimal maintenance. However, periodic inspection can help ensure its continued reliability.

- **Visual Inspection:** Periodically check the sensor and its wiring for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Ensure the sensor head and the tone ring it reads are free from dirt, debris, or metallic particles that could interfere with its signal. Use a soft cloth and appropriate cleaner if necessary.
- **Cable Routing:** Verify that the sensor cable remains securely routed and is not chafing against any moving parts or sharp edges.

8. Troubleshooting

If you experience issues with your speedometer or ABS system after sensor installation, consider the following troubleshooting steps:

- **No Speedometer Reading / ABS Light On:**
  - Check the electrical connector for a secure and clean connection.
  - Inspect the sensor cable for cuts, pinches, or damage.
  - Ensure the sensor is properly seated and bolted to its mounting point.
  - Verify that the tone ring is clean and undamaged.
- **Intermittent Readings:**
  - This could indicate a loose connection or minor interference. Re-check connections and cable routing.
  - Ensure the sensor is not too far from the tone ring (check for proper seating).

If problems persist after performing these checks, it is recommended to consult a professional motorcycle mechanic or an authorized service center for diagnosis.

9. Specifications

Attribute	Specification
Item Type	Motorcycle Wheel Speed Sensor
Brand	Aramox
OE Number	4014216
Compatibility	Indian Motorcycle
Material	ABS (Acrylonitrile Butadiene Styrene)
Mounting Type	Flange Mount
Output Type	Push-Pull
Package Dimensions	7.09 x 4.72 x 1.18 inches
Item Weight	1.76 ounces

10. Warranty and Support

For warranty information or technical support regarding your Aramox 4014216 Rear Wheel Speed Sensor, please refer to the documentation provided with your purchase or contact Aramox customer service directly. Ensure you have your purchase details and the product model number (4014216) available when contacting support.

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