



Manuals.plus /

› Areyourshop /

› Areyourshop Voltage Regulator Rectifier User Manual

## Areyourshop 21066-1014

# Areyourshop Voltage Regulator Rectifier User Manual

Model: 21066-1014

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your Areyourshop Voltage Regulator Rectifier, model 21066-1014. This component is designed to convert alternating current (AC) generated by the stator into direct current (DC) to charge the battery and power the motorcycle's electrical system, while also regulating the voltage to prevent overcharging.

## 2. SAFETY INFORMATION

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Always prioritize safety when working with electrical components. Failure to follow these instructions may result in injury or damage to the product or vehicle.

- Disconnect the battery's negative terminal before beginning any electrical work to prevent accidental short circuits.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the motorcycle's engine is off and cool before handling components.
- If you are unsure about any step, consult a qualified mechanic.
- Do not modify the product or its wiring.

## 3. PRODUCT OVERVIEW

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The Areyourshop Voltage Regulator Rectifier (Model 21066-1014) is a direct replacement unit designed for specific Kawasaki motorcycle models. It features a robust aluminum heat sink for improved heat dissipation and high-grade electrical components for reliable performance.

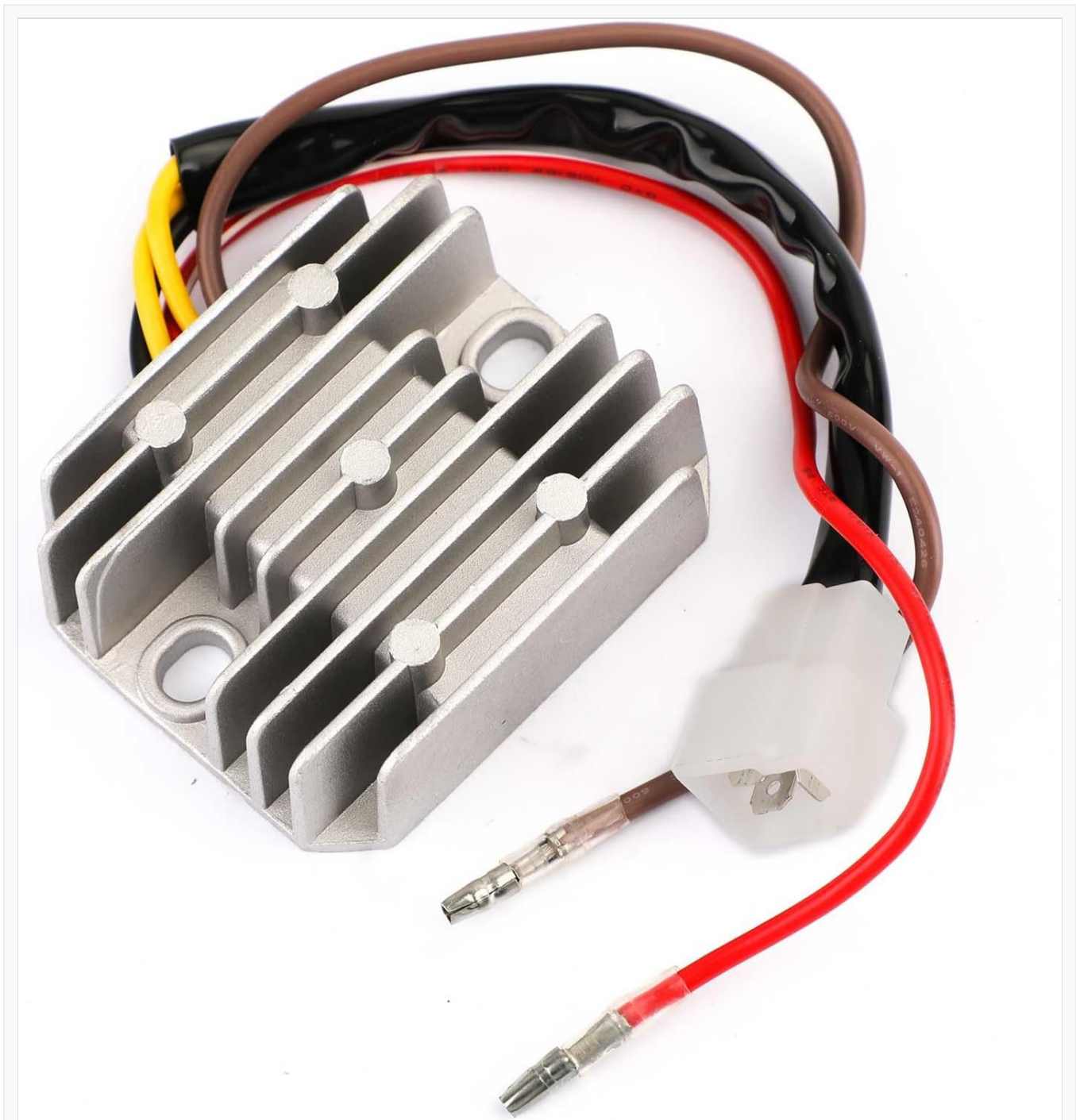


Figure 3.1: Front view of the Voltage Regulator Rectifier, showing the heat sink fins, wiring harness, and main connector.

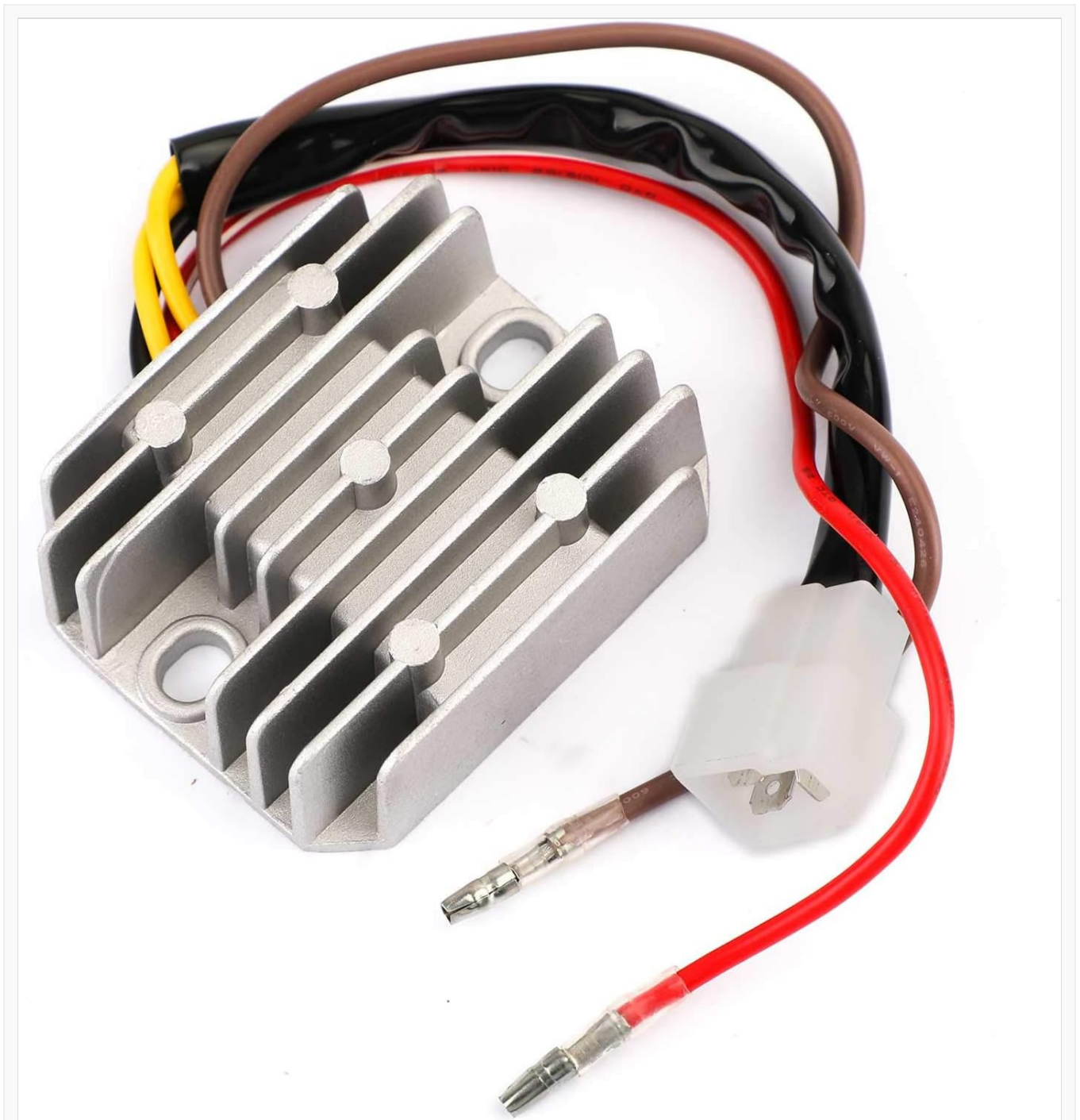


Figure 3.2: Top view of the Voltage Regulator Rectifier, illustrating key dimensions including length, width, height, and mounting hole distances.

#### Key Features:

- Direct replacement for OEM part number 21066-1014.
- Plug-and-play design for easy installation.
- Improved heat sink and charging capabilities.
- Constructed with higher-grade electrical components for durability.

## 4. INSTALLATION INSTRUCTIONS (SETUP)

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This voltage regulator rectifier is designed for direct replacement. Please ensure the motorcycle's ignition is off and the battery is disconnected before proceeding.

1. **Locate the Existing Unit:** Identify the current voltage regulator rectifier on your motorcycle. Its location may vary by

model, but it is typically found near the battery, frame, or under a side cover.

2. **Disconnect Wiring:** Carefully disconnect all electrical connectors attached to the old regulator rectifier. Note the orientation and connection points if necessary.
3. **Remove Old Unit:** Unbolt or unmount the old regulator rectifier from its mounting location.
4. **Install New Unit:** Position the new Areyourshop Voltage Regulator Rectifier (Model 21066-1014) in the same location. Secure it using the existing mounting hardware. Ensure a snug fit to allow for proper heat transfer if mounted to a metal frame.
5. **Connect Wiring:** Reconnect all electrical connectors to the new unit. The plug-and-play design ensures a direct fit. Verify all connections are secure.
6. **Reconnect Battery:** Reconnect the negative terminal of your motorcycle's battery.
7. **Test System:** Start the motorcycle and check the charging system. Use a multimeter to verify that the battery is receiving a stable charging voltage (typically between 13.5V and 14.5V at idle, varying slightly with RPM).

*Note: Always refer to your motorcycle's specific service manual for detailed instructions regarding component locations and wiring diagrams.*

## 5. OPERATING PRINCIPLES

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Once installed, the voltage regulator rectifier operates automatically as part of your motorcycle's electrical system. Its primary functions are:

- **Rectification:** Converts the AC output from the stator (alternator) into DC power.
- **Voltage Regulation:** Maintains a consistent voltage level (typically 13.5V to 14.5V) to the battery and electrical components, preventing overcharging or undercharging.
- **Heat Dissipation:** The integrated heat sink helps dissipate excess heat generated during operation, ensuring optimal performance and longevity of the unit.

No user interaction is required for its operation after proper installation.

## 6. MAINTENANCE

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The Areyourshop Voltage Regulator Rectifier is designed to be maintenance-free. However, periodic checks of the surrounding components can help ensure its longevity and proper function:

- **Wiring Inspection:** Periodically inspect all wiring connected to the regulator rectifier for signs of wear, fraying, or corrosion. Ensure all connections are clean and secure.
- **Mounting Security:** Verify that the unit remains securely mounted. A loose mounting can affect heat dissipation.
- **Cleanliness:** Keep the heat sink fins free of dirt, debris, and excessive grease, which can impede heat dissipation.
- **Battery Health:** Ensure your motorcycle's battery is in good condition. A failing battery can put undue stress on the charging system, including the regulator rectifier.

## 7. TROUBLESHOOTING

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If you experience issues with your motorcycle's charging system after installing the new regulator rectifier, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Battery not charging / Low voltage	Loose or corroded battery terminals Faulty stator Wiring issue Defective battery	Clean and tighten battery terminals. Test stator output (refer to motorcycle service manual). Inspect all wiring for damage or loose connections. Test battery health; replace if necessary.
Battery overcharging / High voltage	Faulty regulator rectifier (less likely with new unit) Incorrect wiring	Double-check all wiring connections. Verify the new unit is the correct model for your motorcycle.
Intermittent charging	Loose connections Intermittent stator fault	Inspect and secure all electrical connections. Test stator under various conditions.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional motorcycle mechanic.

## 8. SPECIFICATIONS

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Detailed specifications for the Areyourshop Voltage Regulator Rectifier (Model 21066-1014):

- **Condition:** Aftermarket 100% Brand New
- **Quantity:** 1 PC
- **Type:** Voltage Regulator Rectifier
- **Reference Part Number(s):** 21066-1014
- **Dimensions:**
  - Length: 71mm / 2.791 inches
  - Width: 58.9mm / 2.32 inches
  - Height: 23.4mm / 0.92 inches
  - 2 Oval Mounting Holes Distance: 64.6mm (Outer) / 47mm (Inner)
- **Electrical Connections:**
  - Number of plug interface pins: 5
  - Number of Plugs: 3
  - Number of Wires: 5
- **Weight:** Approximately 5.3 ounces
- **Product Dimensions (Packaging):** 3.94 x 3.94 x 1.57 inches



Figure 8.1: Side profile of the regulator rectifier, highlighting the heat sink design.



Figure 8.2: Bottom view of the unit, showing the mounting points and the flat base for secure installation.

## 9. FITMENT / COMPATIBLE MODELS

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This Areyourshop Voltage Regulator Rectifier (Model 21066-1014) is compatible with the following Kawasaki motorcycle models. Please verify your specific year and model before purchase and installation.

- Kawasaki KZ1000 CSR M1 1981
- Kawasaki KZ1000 LTD B4 1980
- Kawasaki KZ1000 LTD K2 1982
- Kawasaki KZ250 CSR L1 1982
- Kawasaki KZ250 CSR D1 1980
- Kawasaki KZ250 LTD W1 1983
- Kawasaki KZ440 B1 B2 1980 1981
- Kawasaki KZ440 A3 1982

- Kawasaki KZ440 D2 D3 D4 1981-1982
- Kawasaki KZ650 B1 1977
- Kawasaki KZ750 CSR M1 1982
- Kawasaki KZ750 LTD G1 1980
- Kawasaki KLT200 A1 A2 A3 A4 1981-1983
- Kawasaki KLT200 A4A 1983
- Kawasaki KLT200 B1 1983
- Kawasaki KLT200 C1 1983
- Kawasaki KLT250 Prairie 250 A1 A2 1982 1983
- Kawasaki KLT250 Prairie 250 C1 1983

## 10. WARRANTY AND SUPPORT

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For warranty information or technical support regarding your Areyourshop Voltage Regulator Rectifier, please contact Areyourshop directly through their official channels or the retailer from whom you purchased the product. Keep your purchase receipt as proof of purchase.

Visit the official Areyourshop store for more products and information: [Areyourshop Store on Amazon](#)

