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› WKNYSYK 36 Pin Dual Plug CDI ECU Controller EFI ECM Box for Hisun HS550 550cc UTV/ATV - Instruction Manual

WKNYSYK WKNYSYK123

WKNYSYK 36 Pin Dual Plug CDI ECU Controller EFI ECM Box Instruction Manual

Model: WKNYSYK123

For Hisun HS550 550cc UTV/ATV

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your WKNYSYK 36 Pin Dual Plug CDI ECU Controller. This unit is designed for Hisun HS550 550cc ATV/UTV models, serving as a critical component for engine management and performance. Please read these instructions carefully before installation and use to ensure optimal performance and safety.

2. PRODUCT OVERVIEW

The WKNYSYK 36 Pin Dual Plug CDI ECU Controller is an Electronic Control Unit (ECU) designed to manage the Electronic Fuel Injection (EFI) and ignition systems of compatible Hisun 550cc ATV/UTV vehicles. It is identified by part coding 39200-133-0000 and PJ00000392000000.

Key Features:

- **Optimized Performance:** Designed to enhance engine power and stability, contributing to a smoother riding experience.
- **Efficient Cooling:** Aids in optimizing engine cooling performance to prevent overheating.
- **Durable Construction:** Manufactured from wear-resistant materials for long-term reliability and reduced replacement frequency.
- **Weight Optimization:** Contributes to reducing overall vehicle burden.



Figure 2.1: Top view of the WKNYSYK CDI ECU Controller. This image displays the metallic housing and the two distinct black connector ports located at the upper edge of the unit.

3. SPECIFICATIONS

Specification	Detail
Model Number	WKNYSYK123
Part Coding	39200-133-0000, PJ00000392000000
Compatibility	All Hisun 550cc ATV / UTV models
Mounting Hole Spacing	90 mm
Number of Plugs	Dual (36 Pin total)
Item Weight	1.76 ounces
Package Dimensions	0.39 x 0.39 x 0.39 inches (approximate)
Assembly Required	No

4. SETUP AND INSTALLATION

Installation of the CDI ECU Controller requires careful attention to detail. It is recommended that installation be performed by a qualified technician to ensure correct wiring and secure mounting.

Installation Steps:

1. **Safety First:** Ensure the vehicle's ignition is off and the battery is disconnected before beginning any electrical work.

2. **Locate Existing Unit:** Identify the current CDI/ECU unit on your Hisun HS550 550cc ATV/UTV.
3. **Disconnect Old Unit:** Carefully disconnect all wiring harnesses from the existing unit. Note the orientation and connection points if necessary.
4. **Remove Old Unit:** Unbolt and remove the old CDI/ECU unit. The mounting hole spacing for the new unit is 90 mm.
5. **Mount New Unit:** Position the WKNYSYK CDI ECU Controller in the designated location. Secure it using appropriate fasteners, ensuring the 90 mm mounting hole spacing aligns correctly.
6. **Connect Wiring:** Connect the vehicle's wiring harnesses to the dual plugs on the new CDI ECU Controller. Ensure each plug is fully seated and secured. The unit features two distinct plug ports.
7. **Reconnect Battery:** Once all connections are secure and the unit is mounted, reconnect the vehicle's battery.
8. **Test Functionality:** Start the vehicle and check for proper engine operation and any diagnostic trouble codes.



Figure 4.1: View of the dual 36-pin connectors on the WKNYSYK CDI ECU Controller. This image highlights the two electrical connection points for vehicle integration.

Important: Incorrect installation can lead to vehicle damage or malfunction. If you are unsure about any step, seek professional assistance.

5. OPERATING INSTRUCTIONS

The WKNYSYK CDI ECU Controller operates automatically once correctly installed and the vehicle's ignition is engaged. It continuously monitors various engine parameters and adjusts fuel delivery and ignition timing to optimize engine performance.

- The unit is designed to provide consistent and reliable engine management.
- No user interaction is required for the operation of the ECU itself after installation.
- Ensure all other vehicle components, such as sensors and wiring, are in good working order for the ECU to function optimally.

6. MAINTENANCE

The WKNYSYK CDI ECU Controller is designed for durability and requires minimal maintenance. However, periodic checks can help ensure its longevity and proper function.

- **Visual Inspection:** Periodically inspect the unit and its connections for any signs of damage, corrosion, or loose wiring.
- **Cleanliness:** Keep the unit free from excessive dirt, moisture, and debris. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or solvents.
- **Environmental Protection:** While durable, avoid exposing the unit to extreme temperatures or direct

impact.

- **Connection Integrity:** Ensure all electrical connections remain tight and free from oxidation.

7. TROUBLESHOOTING

If you experience issues with your vehicle's engine performance after installing the WKNYSYK CDI ECU Controller, consider the following general troubleshooting steps:

- **Check Connections:** Verify that all electrical plugs are securely connected to the ECU and that there are no loose or damaged wires.
- **Battery Check:** Ensure the vehicle's battery is fully charged and in good condition.
- **Fuse Inspection:** Check relevant fuses in the vehicle's electrical system that might affect the ECU or ignition.
- **Diagnostic Scan:** If available, use an OBD-II scanner (or equivalent for ATV/UTV) to check for any diagnostic trouble codes (DTCs) that could indicate a specific issue.
- **Professional Consultation:** If problems persist, it is highly recommended to consult a professional mechanic or an authorized service center for diagnosis and repair.

This ECU is a complex electronic component. Do not attempt to open or modify the unit, as this may cause damage and void any potential warranty.

8. WARRANTY AND SUPPORT

Specific warranty terms and conditions for the WKNYSYK CDI ECU Controller are not provided in this manual. Please refer to your purchase documentation or contact the retailer/manufacturer directly for detailed warranty information.

For technical support or inquiries, please contact the seller or manufacturer through the contact information provided at the point of purchase. When contacting support, please have your product model number (WKNYSYK123) and purchase details readily available.