

ZOOMVIBE for Suzuki TR 300 Haojue 2022

Bi-Directional Quickshifter Electric Quick Shift System

MODEL: FOR SUZUKI TR 300 HAOJUE 2022

Brand: ZOOMVIBE

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your new Bi-Directional Quickshifter Electric Quick Shift System. This system is designed to enhance your riding experience by enabling seamless upshifts and downshifts without the need to engage the clutch, offering improved performance and control.

The ZOOMVIBE Quickshifter is engineered for precision, featuring instantaneous sensor-triggered spark interruption for smooth gear changes. It is suitable for both track and street use, providing professional racing performance for daily riders.

2. SAFETY INFORMATION

Important: Installation of this quickshifter system requires basic mechanical skills. If you are unsure about any step, it is highly recommended to seek assistance from a qualified motorcycle mechanic.

- Always disconnect the motorcycle's battery before beginning any electrical installation.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Route cables away from hot engine parts, moving components, and sharp edges.
- Verify proper function of the quickshifter and all motorcycle controls before riding.
- Wear appropriate safety gear when working on your motorcycle.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all components listed below are present and undamaged. If any items are missing or damaged, please contact customer support.



Figure 3.1: The Bi-Directional Quickshifter system as packaged in its retail box, showing the main module, sensor, and wiring harness nestled in protective foam.



Figure 3.2: A closer top-down view of the quickshifter components within the box, highlighting the organized layout of the module, sensor, and various cables.



Figure 3.3: All quickshifter components laid out on a white surface, including the main control module, shift sensor, wiring harness with multiple connectors, and additional small adapters.

- Quickshifter Control Module (EFI HRT unit)
- Bi-Directional Shift Sensor
- Wiring Harness with fully insulated and waterproof connectors
- Installation Hardware (as specified by manufacturer)
- Cable Ties (blue, as seen in images)

4. INSTALLATION GUIDE

The ZOOMVIBE Quickshifter system is designed for plug-and-play installation on the Suzuki TR 300 Haojue 2022. However, careful attention to detail is required.

4.1 Preparation

1. Park the motorcycle on a stable, level surface.
2. Ensure the engine is cool before starting work.
3. Disconnect the negative terminal of the motorcycle's battery.
4. Identify the stock shift rod and the area where the quickshifter sensor will be installed.

4.2 Sensor Installation

1. Locate the stock shift rod. The quickshifter sensor is designed for OE compatibility.
2. Install the bi-directional shift sensor onto the shift rod according to the provided hardware. Ensure it is securely fastened and does not interfere with other components.
3. *Note:* If you have aftermarket rearsets or modified foot controls, contact ZOOMVIBE customer support before installation, as adjustments may be required.

4.3 Wiring Harness Connection

1. Connect the quickshifter control module to the motorcycle's wiring harness using the provided plug-and-play connectors. These connectors are fully insulated and waterproof.
2. Refer to your motorcycle's service manual for specific ignition coil or fuel injector wiring locations if direct plug-in points are not immediately obvious. The system utilizes precision ignition cut for operation.
3. Route all cables neatly and securely using the included cable ties, ensuring they are away from heat sources, moving parts, and sharp edges.

4.4 Final Steps

1. Reconnect the motorcycle's battery.
2. Start the motorcycle and allow it to idle.
3. Perform a static check of the quickshifter by gently attempting to shift gears (without riding) to ensure the sensor registers movement.
4. Once satisfied with the static check, perform a low-speed test ride in a safe, controlled environment to confirm proper operation of both upshifts and downshifts.

5. OPERATING INSTRUCTIONS

The Bi-Directional Quickshifter allows for clutchless gear changes in both directions (upshifts and downshifts) under acceleration and deceleration, respectively.

- **Upshifts:** To upshift, simply apply firm pressure to the shift lever in the upward direction. The

quickshifter will momentarily cut the ignition, allowing the gear to engage smoothly without disengaging the clutch or rolling off the throttle.

- **Downshifts:** To downshift, apply firm pressure to the shift lever in the downward direction. The quickshifter will momentarily cut the ignition, allowing the gear to engage smoothly. This feature is particularly useful for aggressive braking and corner entry.
- **Throttle Management:** For optimal performance, maintain throttle input during upshifts. For downshifts, the system manages the engine's response to facilitate smooth engagement.

This system is designed to reduce clutch fatigue, improve acceleration times, and maintain throttle response during aggressive shifting, making your ride more efficient and enjoyable.

6. MAINTENANCE

The ZOOMVIBE Quickshifter system is designed for durability and requires minimal maintenance. However, periodic checks are recommended to ensure optimal performance and longevity.

- **Cable Inspection:** Periodically inspect all wiring and connectors for signs of wear, fraying, or damage. Ensure all connections remain secure.
- **Sensor Cleanliness:** Keep the shift sensor free from excessive dirt, grime, or debris. A clean sensor ensures accurate readings.
- **Mounting Security:** Check that the quickshifter module and sensor are securely mounted and that all fasteners are tight.
- **Waterproofing:** The connectors are waterproof, but avoid direct high-pressure water sprays on the module or sensor during washing.

7. TROUBLESHOOTING

If you encounter issues with your quickshifter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Quickshifter not engaging (no clutchless shift)	Loose wiring connection; Sensor misalignment; Incorrect installation.	Check all electrical connections; Verify sensor position on shift rod; Re-read installation guide carefully.
Rough or inconsistent shifts	Sensor sensitivity issue; Mechanical interference; Engine RPM too low/high.	Ensure shift rod moves freely; Confirm proper engine RPM for quickshifting (typically above 3000 RPM); Contact support if issues persist.
Motorcycle not starting after installation	Battery disconnected; Incorrect wiring; Blown fuse.	Check battery terminals; Double-check all wiring connections against the diagram; Inspect motorcycle fuses.

If the problem persists after attempting these solutions, please contact ZOOMVIBE customer support for further assistance.

8. SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Product Name	Bi-Directional Quickshifter Electric Quick Shift System
Brand	ZOOMVIBE
Model Compatibility	Suzuki TR 300 Haojue 2022
Functionality	2-Way (Upshift & Downshift) Clutchless Shifting
Shift Mechanism	Precision Ignition Cut
Installation	Plug-and-Play (basic mechanical skills needed)
Wiring	Fully insulated connectors, waterproof design
Material	Stainless Steel
Color	Black
Product Dimensions	10.24"L x 4.72"W
Item Weight	1.5 Pounds
Included Components	Installation Hardware
UPC	735179357098

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official ZOOMVIBE website. Keep your proof of purchase for any warranty claims.

ZOOMVIBE is committed to providing high-quality products and excellent customer service. Do not hesitate to reach out if you have any questions or require assistance with your quickshifter system.