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MOTOKU Thumb Throttle Control Lever 2WD 4WD 4x4 Switch Assembly User Manual

For Yamaha Grizzly 660, Grizzly 450, Kodiak 450 YFM ATV

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your MOTOKU Thumb Throttle Control Lever 2WD 4WD 4x4 Switch Assembly. Please read these instructions carefully before installation and use to ensure safe and effective performance.

This assembly is designed as a replacement part for specific Yamaha ATV models, integrating both throttle control and 2WD/4WD/4x4 selection functionality.

COMPATIBILITY

This MOTOKU Thumb Throttle Control Lever 2WD 4WD 4x4 Switch Assembly is compatible with the following Yamaha ATV models:

- Yamaha Grizzly 660 (2002-2008)
- Yamaha Grizzly 450 (2007)
- Yamaha Kodiak 450 (2003-2006)

SAFETY INFORMATION

Always prioritize safety when working on your ATV. Improper installation or use of this component can lead to serious injury or damage to the vehicle. If you are unsure about any step, consult a qualified mechanic.

- Ensure the ATV is turned off and the key is removed before beginning any installation or maintenance.
- Disconnect the battery's negative terminal to prevent accidental electrical shorts.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- Verify all connections are secure and correct before operating the ATV.
- Test the throttle and switch functions in a safe, open area at low speeds after installation.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- MOTOKU Thumb Throttle Control Lever 2WD 4WD 4x4 Switch Assembly
- Installation Hardware (Screws, Nuts, Bolts, Washers) -*Note: Specific hardware may vary.*

SETUP AND INSTALLATION

The following steps outline the general procedure for installing the throttle and switch assembly. Refer to your ATV's service manual for specific torque specifications and detailed wiring diagrams.

1. **Preparation:** Park the ATV on a level surface, engage the parking brake, and turn off the engine. Disconnect the negative terminal of the battery.
2. **Remove Old Assembly:** Carefully disconnect the existing throttle cable and electrical connectors from the old assembly. Unscrew any mounting bolts or clamps securing the old unit to the handlebars. Remove the old assembly.
3. **Inspect New Assembly:** Examine the new MOTOKU assembly for any visible damage.
4. **Mount New Assembly:** Position the new throttle and switch assembly on the handlebar in the desired location. Secure it using the provided or existing mounting hardware. Do not overtighten initially.



Image 1: Top-front view of the MOTOKU Thumb Throttle Control Lever 2WD 4WD 4x4 Switch Assembly. This image shows the overall design and housing of the unit.

5. **Connect Throttle Cable:** Attach the ATV's throttle cable to the new thumb throttle lever mechanism. Ensure the cable is routed correctly and has proper slack.



Image 2: Side view of the assembly, highlighting the thumb throttle lever. This view is helpful for understanding the throttle cable connection point.

- 6. Connect Electrical Wiring:** Carefully connect the electrical plugs from the new assembly to the corresponding wiring harness on your ATV. Ensure the connectors are fully seated and locked.



Image 3: Close-up view of the electrical connectors. This image helps identify the correct plugs for connection to the ATV's wiring harness.

7. **Final Tightening:** Once all connections are made and verified, tighten the handlebar mounting bolts to the manufacturer's recommended torque specifications.
8. **Reconnect Battery:** Reconnect the negative terminal of the battery.
9. **Function Test:** Before riding, perform a thorough function test. Check for smooth throttle operation,

ensuring it returns to idle freely. Test the 2WD/4WD/4x4 switch functionality according to your ATV's operating instructions.

Note: If you are not experienced with ATV electrical or mechanical work, it is highly recommended to seek professional installation to prevent damage or injury.

OPERATING INSTRUCTIONS

This assembly combines two primary functions: throttle control and drive mode selection.

Throttle Control

- The thumb lever controls the engine's RPM. Push the lever forward with your thumb to increase throttle and engine speed.
- Release the lever to allow it to return to the idle position. Ensure the throttle returns smoothly and completely to idle when released.

2WD/4WD/4x4 Switch

The integrated switch allows you to select between different drive modes for your ATV. The specific functionality and indicator lights will depend on your ATV model.



Image 4: View of the assembly showing the 2WD/4WD/4x4 control buttons. These buttons are used to engage or disengage different drive modes.

- Consult your ATV's owner's manual for detailed instructions on when and how to safely engage and disengage 2WD, 4WD, and 4x4 modes.
- Typically, these switches are used to adapt the ATV's traction to varying terrain conditions.

MAINTENANCE

Regular maintenance helps ensure the longevity and proper function of your throttle and switch assembly.

- **Cleaning:** Periodically clean the exterior of the assembly with a damp cloth to remove dirt and debris. Avoid using harsh chemicals that could damage the plastic or electrical components.
- **Inspection:** Regularly inspect the throttle cable for fraying or damage. Check the electrical wiring for any signs of wear, cuts, or loose connections. Ensure the thumb lever moves freely without sticking.
- **Lubrication:** If the throttle lever feels stiff, a small amount of silicone-based lubricant can be applied

to the pivot points, ensuring it does not interfere with electrical contacts.

- **Waterproofing:** As noted in some user feedback, consider adding additional waterproofing (e.g., silicone sealant) around seams if operating in very wet conditions, to enhance durability.

TROUBLESHOOTING

If you encounter issues with your MOTOKU Thumb Throttle Control Lever 2WD 4WD 4x4 Switch Assembly, consider the following common problems and solutions:

- **Throttle Lever Feels Loose or Sticky:**

Solution: Check the mounting bolts for tightness. Inspect the throttle cable for proper routing and adjustment. If sticky, clean and lubricate the pivot points. Ensure no debris is obstructing the lever's movement.

- **Throttle Not Responding or Engine Not Revving:**

Solution: Verify the throttle cable is correctly attached and adjusted. Check for any kinks or damage in the throttle cable. Ensure the engine kill switch is not engaged.

- **2WD/4WD/4x4 Switch Not Functioning:**

Solution: Check all electrical connections for the switch, ensuring they are secure and free of corrosion. Consult your ATV's service manual for specific wiring diagnostics related to the drive mode selection system.

- **No Power to Assembly:**

Solution: Check the ATV's main fuse box for any blown fuses. Ensure the battery is fully charged and properly connected. Verify all electrical connectors to the assembly are fully seated.

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

SPECIFICATIONS

Feature	Specification
Brand	MOTOKU
Material	Alloy Steel
Color	Black
Style	Modern
Exterior Finish	Alloy Steel
Compatibility	Yamaha Grizzly 660 (2002-2008), Grizzly 450 (2007), Kodiak 450 (2003-2006)

WARRANTY AND CUSTOMER SUPPORT

For information regarding warranty coverage or to obtain customer support, please refer to the MOTOKU official website or contact the retailer from whom the product was purchased. Keep your purchase receipt as proof of purchase.

