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Race-Driven KVF650

Race-Driven Throttle Cable Instruction Manual

For Kawasaki Brute Force 650 KVF650 (2005-2013)

Introduction

This manual provides instructions for the installation, operation, and maintenance of your Race-Driven Throttle Cable, model L-20330. This cable is designed as a direct replacement for Kawasaki Brute Force 650 KVF650 ATV models manufactured between 2005 and 2013. Proper installation and maintenance are crucial for safe and reliable vehicle operation.

Safety Precautions

- Always wear appropriate safety gear, including eye protection and gloves, when performing maintenance or installation.
- Ensure the vehicle is on a stable, level surface and the engine is off before beginning any work.
- Disconnect the battery's negative terminal to prevent accidental starting or electrical shorts.
- Refer to your vehicle's service manual for specific torque specifications and additional safety guidelines.

Setup and Installation

The following steps outline the general procedure for replacing a throttle cable. Specific details may vary based on your vehicle's configuration. Always consult your vehicle's service manual for precise instructions.



Figure 1: Race-Driven Throttle Cable. This image shows the complete throttle cable assembly, featuring the black outer casing, the inner wire, and the metal fittings at both ends for connection to the throttle lever and carburetor/throttle body.

1. **Preparation:** Gather necessary tools, which typically include wrenches, screwdrivers, and possibly cable lubricant. Ensure the vehicle is off and secured.
2. **Access:** Locate the throttle cable connections at both the throttle lever assembly on the handlebars and the carburetor or throttle body. You may need to remove plastic covers or panels to gain access.
3. **Disconnect Old Cable:**
    - At the throttle lever: Loosen any adjustment nuts and carefully detach the cable end from the throttle mechanism.
    - At the carburetor/throttle body: Disconnect the cable end from the throttle valve or linkage. Note the routing of the old cable.
4. **Remove Old Cable:** Carefully pull the old cable out from its routing path, noting any clips or guides that secure it.
5. **Install New Cable:**
    - Route the new Race-Driven throttle cable along the exact same path as the old cable, ensuring it is not kinked, pinched, or routed near hot engine components. Secure it with any existing clips or guides.
    - Connect the cable end to the carburetor/throttle body linkage first, ensuring it is seated correctly.
    - Connect the other end of the cable to the throttle lever assembly on the handlebars.
6. **Adjust Cable Free Play:**
    - Adjust the cable tension using the inline adjusters (if present) or the adjusters at the throttle lever and carburetor.
    - Aim for a small amount of free play (typically 2-3mm) at the throttle lever before the throttle mechanism begins to move. This prevents the throttle from sticking open.
    - Ensure the throttle returns smoothly and completely to the closed position when released. Turn the

handlebars from lock to lock to check that the cable does not bind or change tension.

7. **Final Checks:** Reinstall any removed covers or panels. Reconnect the battery.

Operating Instructions

After installation, proper operation of the throttle cable is critical for vehicle control. Before riding, perform the following checks:

- **Throttle Response:** With the engine off, slowly rotate the throttle grip to its full open position and release it. The throttle should return smoothly and immediately to the closed position without sticking.
- **Handlebar Movement Check:** Start the engine (if safe to do so) and let it idle. Turn the handlebars fully to the left and then fully to the right. The engine idle speed should not change. If it does, the cable is likely binding or incorrectly routed, requiring re-adjustment or re-routing.
- **Initial Ride:** During your first ride after installation, operate the vehicle at low speeds in a safe area to confirm proper throttle function and response.

Maintenance

Regular inspection and maintenance of your throttle cable will ensure its longevity and safe operation.

- **Routine Inspection:** Periodically inspect the entire length of the throttle cable for signs of wear, fraying, kinks, or damage to the outer casing. Check the cable ends for corrosion or looseness.
- **Lubrication:** If the throttle action feels stiff or sluggish, the inner cable may require lubrication. Use a suitable cable lubricant (designed for motorcycle/ATV cables) and a cable luber tool to apply lubricant into the cable housing.
- **Adjustment Check:** Verify that the throttle free play remains within the recommended 2-3mm range. Adjust as necessary.
- **Cleaning:** Keep the cable and its connections clean from dirt, mud, and debris, which can impede smooth operation.

Troubleshooting

Symptom	Possible Cause	Solution
Throttle sticks or returns slowly	Cable binding or kinked Insufficient lubrication Incorrect routing Excessive tension	Inspect cable path, re-route if necessary Lubricate inner cable Adjust cable free play
Excessive throttle free play	Cable stretched Improper adjustment	Adjust cable free play If adjustment is maxed out, cable may need replacement
Engine idle speed changes with handlebar movement	Cable binding or routed incorrectly	Re-route cable, ensuring sufficient slack for full handlebar movement Check for pinched areas

Specifications

- **Product Type:** Throttle Cable
- **Brand:** Race-Driven
- **Part Number:** L-20330
- **Compatibility:** Kawasaki Brute Force 650 KVF650 (Years: 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013)
- **Construction:** Designed to meet or exceed OEM specifications.
- **Approximate Dimensions:** 15 x 11 x 1 inches (packaging)
- **Approximate Item Weight:** 6.1 ounces

Warranty and Support

Race-Driven products are manufactured to high standards. For specific warranty information or technical support, please contact Race-Driven directly through their official channels. You can find more information on the Race-Driven Store on Amazon.

Important Note on Videos

No official product videos from the seller were available for embedding in this manual.

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