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Wiseco FMC011

Wiseco FMC011 Fuel Management Controller User Manual

Model: FMC011 | Brand: Wiseco

Introduction

The Wiseco FMC011 Fuel Management Controller is designed to provide precise fuel flow adjustments for motorcycles equipped with Electronic Fuel Injection (EFI). This controller allows users to fine-tune their bike's air/fuel ratio to compensate for modifications such as high compression pistons, cams, intake, and exhaust systems. It offers a straightforward, button-operated interface, eliminating the need for complex dyno tuning or computer software.
This manual provides essential information for the proper installation, operation, and maintenance of your FMC011 controller.

Product Overview



Figure 1: Wiseco FMC011 Fuel Management Controller. This image displays the main controller unit with its integrated wiring harness and various connectors, ready for installation.

The FMC011 unit consists of a compact control module with indicator lights and adjustment buttons, connected to a

wiring harness with vehicle-specific connectors. The control module features LED indicators (numbered 1-8) and three buttons: a minus (-) button, a MODE button, and a plus (+) button. These controls are used to navigate and adjust the fuel mapping zones.

Setup and Installation

Installation of the Wiseco FMC011 is designed to be plug-and-play for compatible models. Always ensure the vehicle's ignition is off and the battery is disconnected before beginning installation.

Compatibility:

- Kawasaki KFX 450 (2007-2013 models)
- *Note: Not emissions legal in California. For Closed-Course Competition Use Only.*

Installation Steps:

1. **Prepare the Vehicle:** Ensure the vehicle is cool and stable. Disconnect the negative terminal of the battery.
2. **Locate OEM Connectors:** Identify the factory fuel injector and throttle position sensor (TPS) connectors on your vehicle. Refer to your vehicle's service manual for exact locations if needed.
3. **Connect the FMC011 Harness:** The FMC011 harness is designed with connectors that match the OEM connectors. Disconnect the OEM connectors from the injectors/TPS and connect the corresponding FMC011 harness connectors in-line. Ensure all connections are secure and fully seated.
4. **Mount the Controller:** Securely mount the FMC011 control module in a location that is protected from extreme heat, moisture, and vibration, yet accessible for adjustments. Use zip ties or mounting tape as appropriate.
5. **Reconnect Battery:** Once all connections are made and the controller is mounted, reconnect the negative terminal of the battery.
6. **Initial Power-Up:** Turn the ignition key to the ON position (do not start the engine yet). Observe the LED indicators on the FMC011 to confirm power.

Operating Instructions

The FMC011 operates on a three-zone adjustment system, similar to a carburetor, allowing for easy air/fuel ratio tuning without external devices.

Understanding the Zones:

- **Zone 1 (Idle to 1/4 Throttle):** Controls fuel delivery at low RPMs and light throttle openings.
- **Zone 2 (1/4 to 1/2 Throttle):** Manages fuel delivery during mid-range acceleration.
- **Zone 3 (1/2 to Wide Open Throttle):** Adjusts fuel delivery for high RPMs and full throttle.

Adjusting Fuel Flow:

1. **Select Zone:** Press the **MODE** button to cycle through the three adjustment zones. The corresponding LED indicator(s) will illuminate to show the active zone.
2. **Adjust Fuel:**
    - Press the **+** button to increase fuel delivery for the selected zone.
    - Press the **-** button to decrease fuel delivery for the selected zone.

    Each press will incrementally adjust the fuel. The LED indicators (1-8) will show the current adjustment level within that zone. Higher numbers indicate more fuel.

3. **Test and Refine:** After making adjustments, test the vehicle's performance under various conditions corresponding to the adjusted zone. Make small, incremental changes and observe the engine's response.

It is recommended to make adjustments in a controlled environment and to understand the effects of rich or lean fuel mixtures on engine performance and longevity.

Maintenance

The Wiseco FMC011 Fuel Management Controller requires minimal maintenance. Regular inspection is recommended to ensure optimal performance and longevity.

- **Connection Check:** Periodically inspect all electrical connections to the controller and harness for tightness and corrosion. Ensure they are free from dirt and moisture.
- **Wiring Inspection:** Check the wiring harness for any signs of chafing, cuts, or damage. Secure any loose wiring to prevent interference with moving parts or heat sources.
- **Controller Unit:** Keep the controller unit clean and free of debris. Avoid exposing it to direct water spray or extreme temperatures.
- **Environmental Protection:** Ensure the mounting location continues to protect the unit from excessive vibration, heat, and moisture.

Troubleshooting

This section provides solutions to common issues you might encounter with your FMC011 controller.

Problem	Possible Cause	Solution
Controller does not power on.	No power supply; loose connection; blown fuse.	Check battery connection. Verify all harness connections are secure. Inspect vehicle's fuse box for any blown fuses related to the EFI system.
Engine performance issues after installation (e.g., rough idle, hesitation).	Incorrect fuel adjustment; loose harness connections.	Re-adjust fuel settings incrementally, starting from a neutral or factory-recommended setting if available. Double-check all harness connections for proper seating.
LED indicators not responding to button presses.	Controller malfunction; button malfunction.	Ensure the unit is powered. If the issue persists, contact Wiseco customer support for further assistance.

If you encounter an issue not listed here, or if the suggested solutions do not resolve the problem, please contact Wiseco customer support.

Specifications

- **Model:** FMC011
- **Brand:** Wiseco
- **Product Dimensions:** 17.78 x 13.97 x 6.35 cm (7 x 5.5 x 2.5 inches)
- **Item Weight:** 227 g (0.5 lbs)
- **Compatibility:** Kawasaki KFX 450 (2007-2013)
- **Adjustment Zones:** 3 (Idle to 1/4, 1/4 to 1/2, 1/2 to Wide Open Throttle)
- **Adjustment Method:** Push-button operation
- **Installation:** Plug-and-play

Warranty and Support

For specific warranty information regarding your Wiseco FMC011 Fuel Management Controller, please refer to the warranty card included with your product or visit the official Wiseco website. Warranty terms and conditions may vary. For technical support, installation assistance, or troubleshooting beyond the scope of this manual, please contact Wiseco customer service directly. Contact information can typically be found on the Wiseco website or product packaging.

Disclaimer: Wiseco is not responsible for any damage or injury caused by improper installation or use of this product. This product is intended for closed-course competition use only and is not legal for sale or use on pollution-controlled vehicles in California.

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