Electronic Fuel Injection Module Installation Instructions

The instructions below are generic due to the variety of applications that can benefit from this product. If you need further assistance with an install call technical support at (336) 472-2242 or visit our web site at: http://www.cvproducts.com

INSTALLATION PREP:

Required tools to remove the seat, side panel and ignition coil cover if need be.

KIT CONTENTS: (1) Fuel Controller, (1) Set of Installation Instructions, (1) Velcro Strip, (3) Zip-ties

INSTALLATION

1. Remove the seat from the bike.
2. Remove the tank plastic and lift the fuel tank.
3. Remove bolt that holds the fuel tank, this bolt is located at the top of the frame near the triple clamp. Next, remove rubber strap that holds the back of the tank down. The fuel tank should be free.
4. Locate the injector underneath the fuel tank. The KX and CRF will have a gray connector with the locking tab on top. The RMZ will have a black connector with the locking tab on top. A pair of needle nose pliers may be needed to unplug the factory connector.
5. Plug the CV4FI connector into the fuel injector, this connector will match the factory connector that was unplugged. Then plug the other CV4FI connector into the factory connector that was unplugged from the injector.
6. Route the harness along the frame rail mounting the unit wherever you would like. We suggest behind the number plate.
7. Attach the ground wire directly to the frame. Possible locations for mounting this wire are the bolt that holds the top of the fuel tank, the Ignition Coil mount, or the voltage regulator mount.
8. Now that the kit is mounted, check to make sure the harness is not going to rub on anything and secure it to the frame with supplied Zip ties. Make sure the harness will not affect the steering of the bike.
9. Reassemble the bike in reverse order.
10. The unit will scroll green LEDs across the controller face plate and then go to a solid green or slowly blinking green LED on initial start up. This indicates the unit is installed correctly and functioning properly. If you get flashing green LEDs in the 1st and 8th position, please verify your connections and try to start the bike again.

(During install or tuning please call with questions)

TUNING:

The Electronic Fuel Injection Module can be tuned by entering the adjustment modes. To enter the adjustment modes you simply press the Mode button on the controller faceplate. The faceplate will show flashing LEDs when in adjustment mode instead of solid LEDs which are displayed during operational mode.

Please Note: the tuner is pre-programmed for your unit at the factory. Some additional tuning may be required due to altitude or engine modifications. Please see below if additional adjustments are required.

Press the Mode button repeatedly to access the different adjusting modes. Take note that the Mode button is sensitive and will at times skip a mode. Pressing the Mode button at the last enabled mode will bring you back to the first mode. To exit the adjustment mode and return to operation mode, wait until the LED display shows solid LED colors.

Mode 1 - GREEN MODE: The first mode represents fuel modification under CRUISE conditions beginning just above idle. Adjust this mode when fuel modification is required and solid GREEN LEDs are appearing on the LED display. Fuel can be added or subtracted from the stock fuel curve. The mode is represented by one or two flashing green LEDs appearing on the LED display. To add more fuel, scroll the flashing green LED(s) to the right using the (+) button. To subtract fuel from the current setting use the (-) button.

Setting this mode to position 3 on the LED display is like reverting back to stock. No fuel will be added or subtracted to the stock fuel curve. Positions greater than 3 are adding a percentage of fuel. Positions less than 3 are subtracting a percentage of fuel.

Mode 2 - YELLOW MODE: The second mode represents fuel modification during ACCELERATION conditions. Adjust this mode when fuel modification is required and solid YELLOW LEDs are appearing on the LED display. Fuel can be added or subtracted from the stock fuel curve. The mode is represented by one or two flashing yellow LEDs appearing on the LED display. Add more fuel by using the (+) button and to decrease the amount of fuel from the current setting use the (-) button.

Setting this mode to position 3 on the LED display is like reverting back to stock. No fuel will be added or subtracted from the stock fuel curve. Positions greater than 3 are adding a percentage of fuel. Positions less than 3 are subtracting a percentage of fuel.

Mode 3 - RED MODE: The third mode represents fuel modification during FULL THROTTLE conditions. Adjust this mode when fuel modification is required and solid RED LEDs are appearing on the LED display. Fuel can be added or subtracted from the stock fuel curve. This mode is represented by one or two flashing red LEDs on the display. To add more fuel, scroll the flashing red LED(s) to the right using the (+) button. To subtract fuel from the current setting use the (-) button.

Setting this mode to position 3 on the LED display is like reverting back to stock. No fuel will be added or subtracted to the stock fuel curve. Positions greater than 3 are adding a percentage of fuel. Positions less than 3 are subtracting a percentage of fuel.

Mode 4 - GREEN/BLUE MODE: The fourth mode represents an electronic accelerator pump. Fuel can be added or subtracted from the stock fuel curve based on load rate changes. The mode is represented by one or two flashing green LEDs appearing on the LED display along with the 8th LED flashing blue. To add more fuel, scroll the flashing LED(s) to the right using the (+) button. To subtract fuel from the current setting use the (-) button.

Setting this mode to position 3 on the LED display is like reverting back to stock. No fuel will be added or subtracted to the stock fuel curve. Positions greater than 3 are adding a percentage of fuel. Positions less than 3 are subtracting a percentage of fuel.

Note: If modes 1 through 4 (Green, Yellow, Red and Green-Blue) are set to position 3 on the LED display then no fuel modification is occurring. This setting will essentially turn off the EFI Module even though it is still attached to the bike's fuel injection system. The bike will run as though the EFI is not installed. The LEDs will still operate normally even though no fuel is being added or subtracted.

Mode 5 - YELLOW/BLUE: The fifth mode is an adjustment to determine the switch point when the ACCELERATION or Yellow Mode fuel amount turns on and cruise turns off. The mode is represented by one or two flashing yellow LEDs appearing on the LED display along with the 8th LED flashing blue at the same time. To increase the sensitivity causing the Yellow Mode to turn on sooner use the (-) button. To decrease the sensitivity causing the Yellow Mode to turn on later use the (+) button.

Mode 6 - RED/BLUE: The sixth mode is an adjustment to determine the switch point when the FULL THROTTLE or Red Mode fuel amount turns on and acceleration turns off. The mode is represented by one or two flashing red LEDs appearing on the LED display along with the 8th LED flashing blue at the same time. To increase the sensitivity causing the Red Mode to turn on earlier use the (-) button. To decrease the sensitivity causing the Red Mode to turn on later use the (+) button.

Some vehicles modified with this product can not be used on public roads and in some cases may be restricted to close course competition. Products not identified as US EPA legal are intended for off-road or marine applications only. Not intended for use on vehicles with emission controlled.

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