

Power Programmer

Patent #'s: 7,000,599 & 7,124,742 Manufactures Part # 9310053 - FMF Part #014503

FMF Power Programmer Installation Instructions for BRP Can-Am DS 450

Thank you for choosing the FMF Power Programmer. The FMF Power Programmer is usable only for the following models: BRP Can-Am DS450.

This product can be used on a completely stock machine. However it has been developed specifically for use with FMF Exhausts. It is similar to a jet kit for a regular carbureted machine, the more you modify the settings and adjustments the more responsibility you must take in maximizing your fuel flow and overall performance.

Tools Required

Small standard screwdriver 10mm wrench

Warranty

•2- Year Unlimited Mileage Warranty

This FMF Power Programmer is manufactured and assembled for FMF Racing by Dobeck Performance. This product carries a Warranty from the manufacturer for 2 years from the date of purchase against original defects in materials and workmanship only. Should this product fail to perform for any of these reasons, Dobeck Performance, on behalf of FMF Racing will at their discretion, repair or replace it with an equivalent product at no charge excluding shipping charges, to the original Retail purchaser.

* * IMPORTANT * * IMPORTANT * *

To obtain the benefits of this warranty, the retail purchaser must call Dobeck Performance and obtain an RMA # and send postage prepaid to:

- Dobeck Performance Warranty Department
- 157 Progressive Drive
- Belgrade, MT 59714
- Technical Assistance/Warranty
- Phone: 877-764-3337
 - email: info@dobeckperformance.com



Installation

-Before installing this product make sure you have a basic understanding of certain components and features of your ATV. If you are not aware of where the factory electronic control module (ECU) and the battery are located, we seriously recommend that you have your dealership install this product. We have designed this product to be very consumer friendly, with easy hook-up and adjustment, but you are still working on very sophisticated equipment that requires at least basic mechanical knowledge.

FMF Racing

18033 S. Santa Fe Avenue Rancho Dominguez, CA 90221 Phone: 310-631-4363 website: www.fmfracing.com Installation or Warranty questions? Contact Dobeck Performance at 877-764-3337.

Installation con't

1. Remove seat.

2. Remove 6 bolts holding both side panels on. Fig 1-2



Figure 1



Figure 2

3. Remove gas cap and bolt from the upper and lower black plastic covers. Replace gas cap after covers have been removed. Fig 3



Figure 3

4. Remove bolt from the top of the coolant tank and turn the tank sideways. Fig 4



Figure 4

5. Unplug the stock grey fuel injector connector. Fig 5-6 Plug the FMF Power Programmer grey connector onto the injector and plug the stock injector connector to the black FMF Power Programmer connector.



Figure 5

6. Connect ground wire from FMF Power Programmer to a good chassis ground or the negative post of the battery.

7. Reassembly is the opposite of disassembly.

NOTE: Re check your wire routing and FMF Power Programmer location and make certain that in no way the wires can come into contact with any moving parts or high heat source and that the FMF Power Programmer is mounted in a way as to not cause a handling problem with the machine. It is recommended that the pre-programmed settings of the FMF Power Programmer be used. However, the FMF Power Programmer can be adjusted to suit different engine modifications, states of tune and environmental conditions.



Figure 6

FMF Racing 18033 S. Santa Fe Avenue Rancho Dominguez, CA 90221 Phone: 310-631-4363 website: www.fmfracing.com Installation or Warranty questions? Contact Dobeck

Performance at 877-764-3337.

Adjustment

To begin this process, press the mode button. To enter each successive mode, just press the mode button again. Note that every mode will be identifiable by the color(s) of the flashing LED(s) on the LED display. There are six modes that are distinguished by an LED color or color combination. The 6 modes are as follows, respectively: Green, Yellow, Red, Green-Blue, Yellow-Blue and Red-Blue. You are now ready to manually program each mode. Consult the base settings supplied with the unit. To program the FMF Power Programmer, the bike must be running in order to supply power to the FMF Power Programmer. Simply press the mode button to activate the first mode. If at anytime you stay in an adjustment mode for longer than 5 seconds without pressing any buttons, the FMF Power Programmer will exit the adjustment mode and will return to the operational mode. To save settings in a particular mode press the MODE button which goes to the next adjustable mode or wait for the FMF Power Programmer to exit back to the operational mode. The settings in each mode are adjusted by pressing the (+) and (-) buttons located on the right and left side of the mode button, respectively. For easy reference, the LEDs are numbered 1 through 8. However, the LEDs can be adjusted to the following positions:

0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8. For example, in a particular mode, if LED 4 is flashing then the LED display is set to 4 in that mode. If the (+) button is pressed once then LEDs 4 and 5 will flash simultaneously and the LED display is set to 4.5. If the (+) button is pressed once again, only LED 5 will flash and the LED display is set to 5. The LED display can also be set to 0.5 by pressing the (-) button and scrolling the colored LED to position 1 and then pressing the (-) button once more until the LED in position 1 is flashing twice as fast as normal.

Tuning

1. The first mode (Green Mode) represents an additional amount of fuel added under cruise conditions. A flashing green LED should appear on the LED display. To add more fuel, scroll the flashing green LED to the right using the (+) button. To add less fuel, scroll the flashing green LED to the left using the (-) button. If you set the flashing green LED to the 0.5 position on the LED display, no fuel will be added to the stock fuel curve.

2. The second mode (Yellow Mode) represents an additional amount of fuel added during acceleration. A flashing yellow LED should appear on the LED display. To add more fuel, scroll the flashing yellow LED to the right using the (+) button. To add less fuel, scroll the flashing yellow LED to the left using the (-) button. If you set the flashing yellow LED to the 0.5 position on the LED display, no fuel will be added to the stock fuel curve.

3. The third mode (Red Mode) represents an additional amount of fuel added during full throttle conditions. A flashing red LED should appear on the LED display. To add more fuel, scroll the flashing red LED to the right using the (+) button. To add less fuel, scroll the flashing red LED to the left using the (-) button. If you set the flashing red LED to the 0.5 posi-

FMF Racing

18033 S. Santa Fe Avenue Rancho Dominguez, CA 90221 Phone: 310-631-4363 website: www.fmfracing.com Installation or Warranty questions? Contact Dobeck Performance at 877-764-3337.

Tuning

tion on the LED display, no fuel will be added to the stock fuel curve.

Note: If the flashing green, yellow and red LEDs in modes 1 through 3 (Green, Yellow and Red) are set to the 0.5 position on the LED display then the FMF Power Programmer will not add any fuel to the bike's stock fuel curve. This setting will essentially turn off the FMF Power Programmer even though it is still attached to the bike's fuel injection system. The bike will run as though the FMF Power Programmer is not installed. The FMF Power Programmer LEDs will still operate normally even though no fuel is being added.

4. The fourth mode (Green-Blue Mode) is an adjustment to determine the point on the RPM range when the cruise/Green Mode fuel turns ON. A flashing green LED appears on the LED display while at the same time a flashing blue LED appears on the 8th LED. The cruise/Green Mode fuel can be set to turn on at idle or just above idle at a point selected by the user by adjusting the green LED in this mode. The Green-Blue mode is RPM based only. Each LED position represents a specific RPM on your bike. In this case, LED 0.5 will turn ON the cruise/Green Mode fuel at 1,575 RPM and LED 8 will turn ON the cruise/Green

Mode fuel at 2,100 RPM. Each LED setting in between 0.5 and 8 will turn ON the cruise/Green Mode fuel in between the abovementioned RPM points. You can calculate what RPM corresponds to what LED by interpolation. If at idle, the Green LED is solid, then the Green Mode is active and the Green-Blue LED is set to a RPM that is lower than the idle RPM of the ATV; Green Mode fuel is being added at idle. If at idle, the Green LED is slowly flashing, then the Green Mode is NOT active and the Green-Blue LED is set to a RPM that is higher than the idle RPM of the ATV; Green Mode fuel is NOT being added at idle.

5. The fifth mode (Yellow-Blue Mode) is an adjustment to determine the time when the acceleration/Yellow Mode fuel amount turns on. A flashing yellow LED appears on the LED display while at the same time a flashing blue LED appears on the 8th LED. To increase the sensitivity and therefore cause the Yellow Mode fuel to turn on sooner, scroll the flashing yellow LED to the left using the (-) button. To decrease the sensitivity and therefore cause the Yellow Mode fuel to turn on later, scroll the flashing yellow LED to the right using the (+) button.

6. The sixth mode (Red-Blue Mode) is an adjustment to determine the time when the full throttle/Red Mode fuel amount turns on. A flashing red LED appears on the LED display while at the same time a flashing blue LED appears on the 8th LED. To increase the sensitivity and therefore cause the Red Mode fuel to turn on sooner, scroll the flashing red LED to the left using the (-) button. To decrease the sensitivity and therefore cause the Red Mode fuel to turn on later, scroll the flashing red LED to the right using the (+) button.

Installation or Warranty questions? Contact Dobeck Performance at 877-764-3337.

FMF Racing

18033 S. Santa Fe Avenue Rancho Dominguez, CA 90221 Phone: 310-631-4363 website: www.fmfracing.com Installation or Warranty questions? Contact Dobeck Performance at 877-764-3337.

Tuning Con't

Green Mode -.5 Yellow Mode -.5 Red Mode -.5 Q 9 9 9 С 0 0 ç 0 \cap 0 03 04 9 0 IIII IIIIG POWEr 1 HA ття (+)(+)mode mode mode Yellow/Blue Mode -3 **Red/Blue Mode -4** Green/Blue Mode -8 . Q 9 C Q Q 9 Q C 9 Ç Q Power ITH ППН

mode

(+

Vehicles modified with FMF Exhaust and/or FMF Power Programmers are not intended to be used on emissions controlled vehicles, on public roads, or public land; and in many cases may be restricted to closed course use only. Products not specifically identified as US EPA legal or CARB legal are intended for closed course race applications only.

(+)

mode

FMF Racing 18033 S. Santa Fe Avenue Rancho Dominguez, CA 90221 Phone: 310-631-4363 website: www.fmfracing.com Installation or Warranty questions? Contact Dobeck Performance at 877-764-3337.

(+)

(+)

mode