



FUEL MOTO MICRO EFI TUNER INSTALLATION INSTRUCTIONS

2014-2017 HONDA FOREMAN 500
2014-2017 HONDA RANCHER 420



PARTS LIST

1	Micro Tuner Module	2	Velcro
1	USB Cable	1	Posi-tap
1	Alcohol swab	1	O2 Optimizer

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

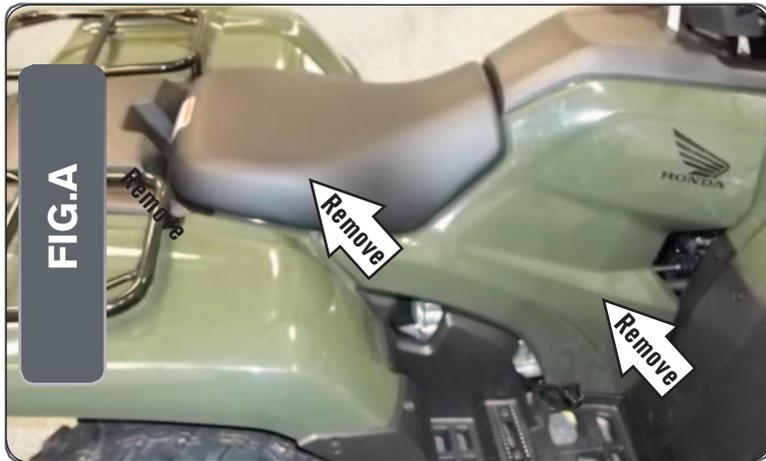
Note: Fuel Moto USA and Fuel Moto Micro EFI Tuner fuel management systems are not legal for use or installation on motor vehicles operated on public highways in the State of California or other States where similar emission and decibel regulation laws may apply. The user shall determine suitability of the product for his or her use. The user shall assume all risk and liability in violation of regulations and any incurred financial obligations due to vehicle inspections or emissions tests.

Fuel Moto USA

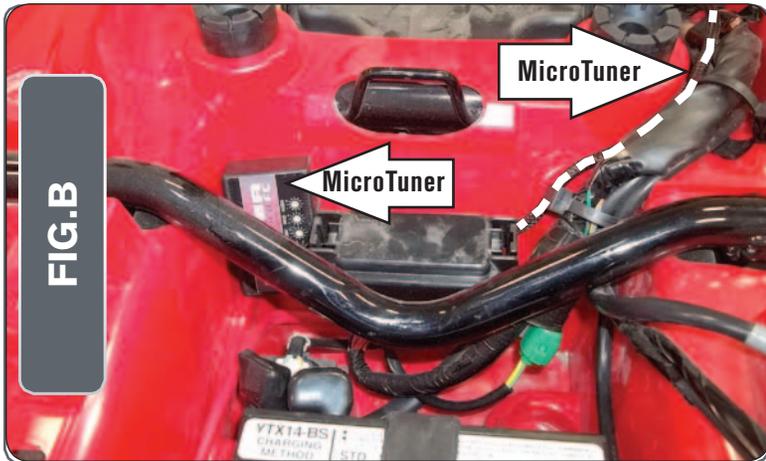
2215 Kelbe Dr., Little Chute, WI 54140

Phone: 920-423-3309

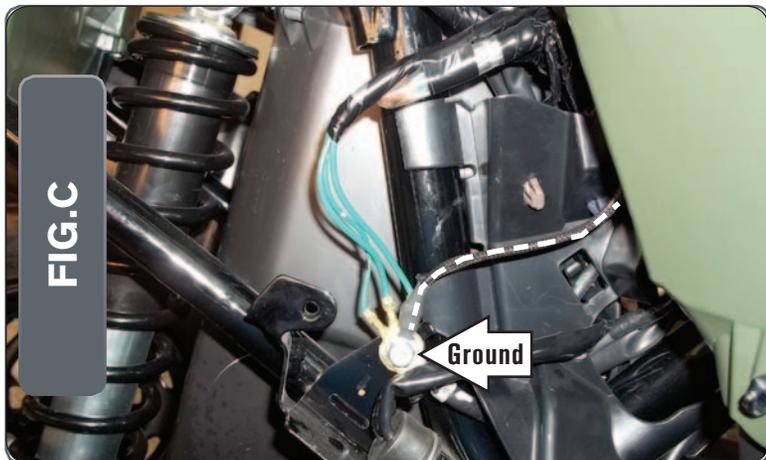
www.fuelmotousa.com



- 1 Remove the seat, the battery cover rear of the seat, and the body panels surrounding the ATV's fuel tank (Fig. A).



- 2 Using the supplied Velcro, secure the MicroTuner module towards the front of the battery compartment.
Clean both surfaces with the supplied alcohol swab prior to applying the Velcro adhesive.
- 3 Route the MicroTuner wiring harness forward along the right side frame rail following alongside the stock wiring harness and using the stock wiring harness ties to secure the MicroTuner wiring harness (Fig. B).



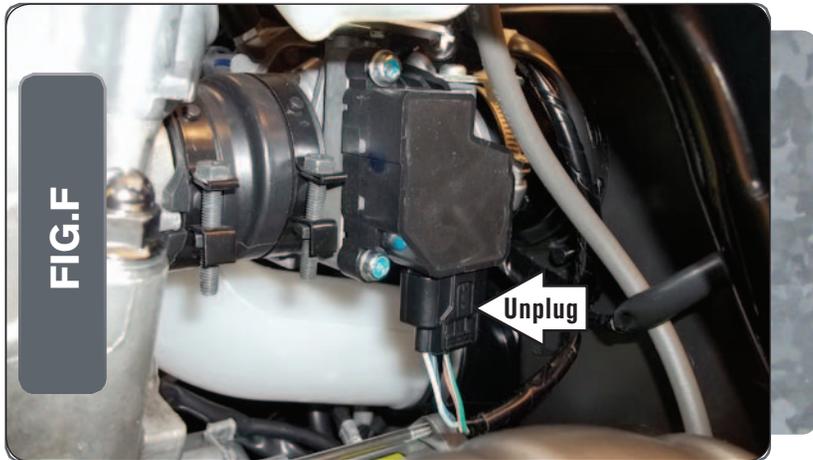
- 4 Inside of the right-rear fender well, secure the MicroTuner ring lug to the common ground bolt on the frame (Fig. C).



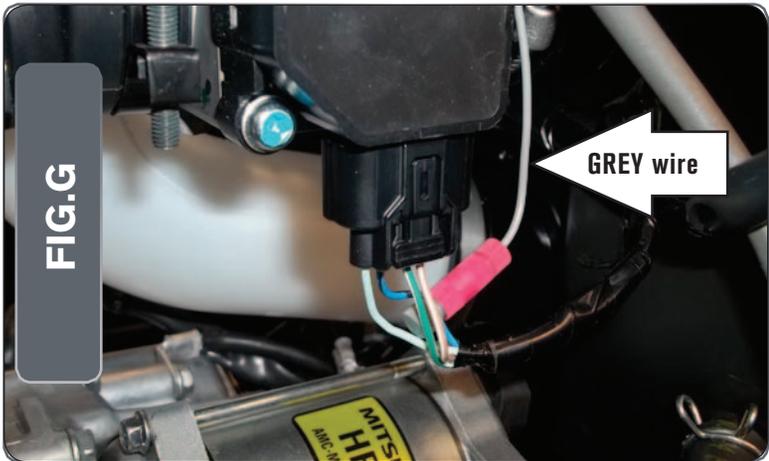
- 5 At the top of the throttle body, unplug the stock wiring harness from the ATV's Fuel Injector (Fig. D).



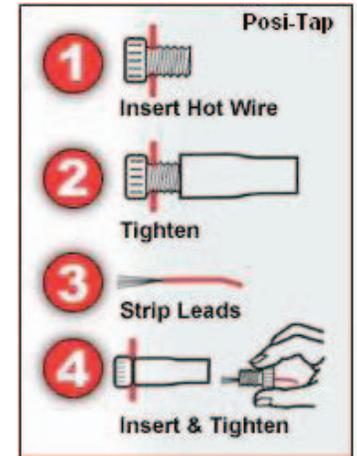
- 6 Plug the MicroTuner wiring harness in-line of the Fuel Injector and the stock wiring harness (Fig. E).



- 7 At the left side of the throttle body, unplug the stock wiring harness from the ATV's Throttle Position Sensor (Fig. F).



- 8 Use the supplied Posi-tap, to attach the MicroTuner single unterminated GREY wire to the stock BLACK/BLUE wire of the TPS connector.
- 9 After attaching the wire, plug the ATV's stock TPS connector back on to the TPS (Fig. G).



- 10 Just left of the airbox, locate and unplug the stock connectors for the ATV's O2 sensor (Fig. H).

The stock O2 sensor in the exhaust just at the front of the muffler has a cable that can be traced this connector.



- 11 Plug the supplied O2 Optimizer into the ATV's wiring harness in-place of the stock O2 sensor (Fig. J).

The stock O2 sensor will no longer be used. It can be removed from the exhaust if desired and if you have a way to plug the hole in the exhaust. If you do leave it in the exhaust, be sure to tie up the wiring harness to keep it off of the hot exhaust.

- 12 Reinstall the covers over the fuel tank, the battery cover, and the seat.



- ↑ USB Port
- ↑ HIGH RPM Dial
- ↑ MID RPM Dial
- ↑ LOW RPM Dial
- ↑ MAP Select
- ↑ STATUS Light

Position	Note
Position 1	2014-2017 Honda Rancher 420 Stock exhaust Stock air filter
Position 2	2014-2017 Honda Foreman 500 Stock exhaust Stock air filter

Selecting the Map Position

The Fuel Moto Micro EFI Tuner can hold up to ten maps. Using a #1 Phillips screwdriver, turn the map select dial to toggle between the loaded maps. The module comes preloaded with a stock map (see table to left).

Using the RPM Range Dials

The Low, Mid, and High RPM Dials refer to the RPM range, in thirds, of your vehicle. Each dial allows +/- 10% fuel adjustment on top of what fuel changes are done in the map. With the dial facing straight up, there is no additional fuel change

For example, if your vehicle revs to 9000 RPM:

- The low RPM dial will adjust 0-3000 RPM
- The mid RPM dial will adjust 3001-6000 RPM
- The high RPM dial will adjust 6001-redline

Using Fuel Moto Micro EFI Tuner Control Center

Take your tuning to the next level with the Fuel Moto Micro EFI Tuner Control Center software.

- 1 Go to <https://www.fuelmotousa.com/p-28236-fuel-moto-micro-efi-tuner.html> to download the software
- 2 Click Install Software and follow the on-screen instructions to install the Micro Tuner software. The Micro EFI Tuner software and maps will be stored in C:\Program Files\Fuel Moto Micro EFI Tuner Control Center.

Loading Additional Maps

- 1 Connect the USB cable from the computer to the Fuel Moto Micro EFI Tuner Module. Verify the cable is fully seated in the Fuel Moto Micro EFI Tuner Module.
- 2 Run the Fuel Moto Micro EFI Tuner Control Center software by double-clicking the program icon installed on your desktop or on your start menu.
- 3 Click Open Map File and select a map file.
- 4 Click Send Map. You can send the map to any of the ten map positions .

Altering Maps Using Software

The values in the map represent a percentage of fuel change over stock. A value of 10 in the map indicates at that throttle position and RPM range the vehicle will be 10% richer than stock. If the value is -10, then it would be 10% leaner than stock. You have the ability to fine tune your fuel curve by altering these values . The Control Center software allows a value of +250 to -100 in each cell.