



FUEL MOTO MICRO EFI TUNER INSTALLATION INSTRUCTIONS

2010-2012
HARLEY-DAVIDSON
TOURING MODELS



PARTS LIST

1	Micro Tuner Module	2	Velcro
1	USB Cable	1	Alcohol swab
1	CD-ROM	1	Posi-tap
1	Installation Guide		

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

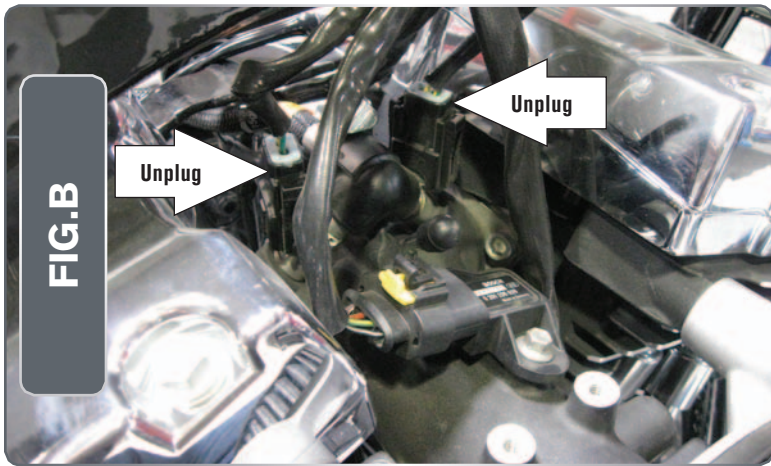
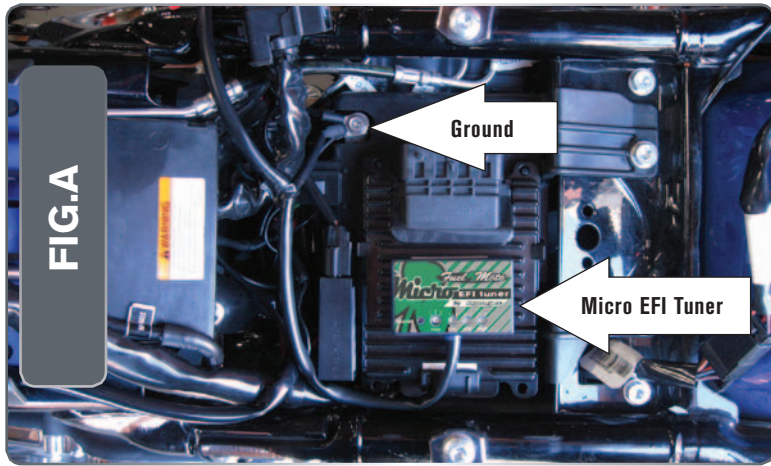
Note: Fuel Moto USA and Fuel Moto Micro EFI Tuner fuel management systems are not legal for use or installation on motor vehicles operated on public highways in the State of California or other States where similar emission and decibel regulation laws may apply. The user shall determine suitability of 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

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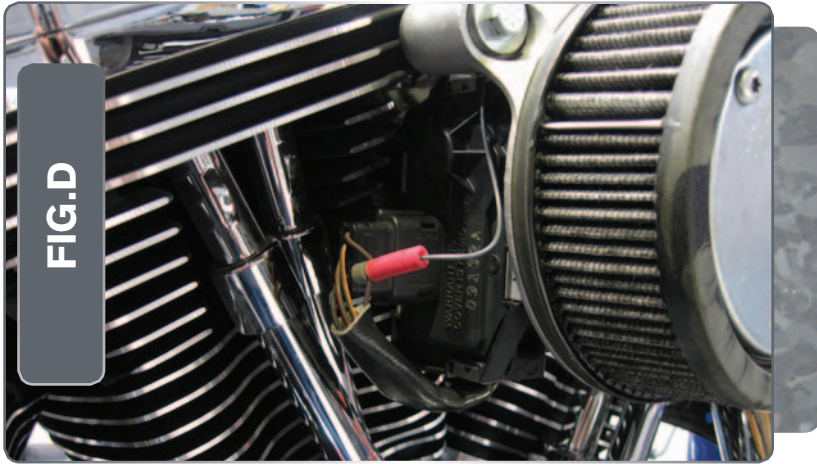


- 1 Remove the stock seat.
- 2 Remove the air box and raise the fuel tank to access the throttle body.
- 3 Using the supplied velcro, secure the Micro EFI Tuner to the top of the stock ECM (Fig. A).
- 4 Secure the ground eyelet of the Micro EFI Tuner to the negative terminal of the bike's battery.
- 5 Route the Micro EFI Tuner harness along the backbone of the frame and up towards the throttle body.
- 6 Unplug the stock wiring harness from both of the fuel injectors (Fig. B).
- 7 Plug the connectors from the Micro EFI Tuner in-line of the stock wiring harness and the injectors (Fig. C).

The ORANGE colored wires go to the front cylinder.

The YELLOW colored wires go to the rear cylinder.

FIG.D



- 8 Unplug the connector from the Throttle Position Sensor.
- 9 Using the supplied Posi-tap, attach the GREY wire of the Micro EFITuner to the BROWN/PURPLE wire of the stock wiring harness.
This wire should be in position "C" on the stock TPS connector.
- 10 Plug the TPS connector back onto the throttle body.

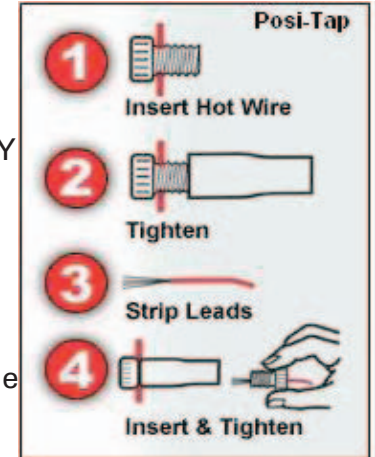
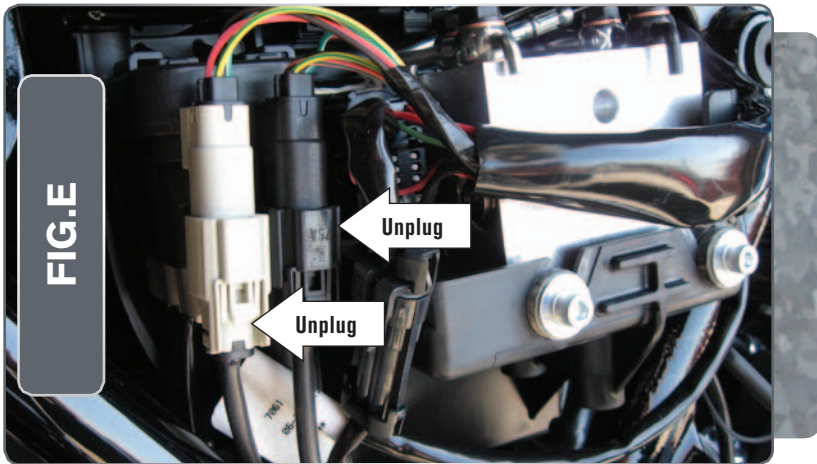


FIG.E



- 11 Remove the right hand saddlebag and sidecover.
- 12 Locate the stock o2 sensor connections and unplug both connectors (Fig. E).
The stock o2 sensors will NOT be connected to anything at this time. The sensors can be removed from the exhaust, if you have a way to plug the hole.
Unplugging the stock o2 sensors does NOT cause an engine light but will cause a historic code in the ECM for non-active o2 sensors. This does not cause any issues with the running of the bike.
- 13 Reinstall the sidecover, saddlebag, and seat.



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

Selecting the Map Position

The Fuel Moto Micro EFI Tuner comes loaded with up to ten maps. Using a #1 Phillips screwdriver, turn the map select dial to toggle between the loaded maps. Refer to the map position table below for the maps included in your Micro EFI Tuner Module.

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 6000 RPM:

- The low RPM dial will adjust 0-2000 RPM
- The mid RPM dial will adjust 2001-4000 RPM
- The high RPM dial will adjust 4001-6000 RPM

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 Insert the CD provided into your computer's cd-rom drive. The launch program will run automatically. If auto-run is disabled, double-click the My Computer icon then double-click the CD drive icon. Double-click Fuel Moto Micro EFI Tuner setup.exe to manually start the CD.
- 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.
- 3 Click Map Database. All maps will automatically be installed to the C:\Program Files\Fuel Moto Micro EFI Tuner Control Center\maps folder.

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 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.