IGNITION MODULE
FOR USE WITH
[POWER COMMANDER V]

2009-2010 Yamaha FZ1

Installation Instructions

PARTS LIST

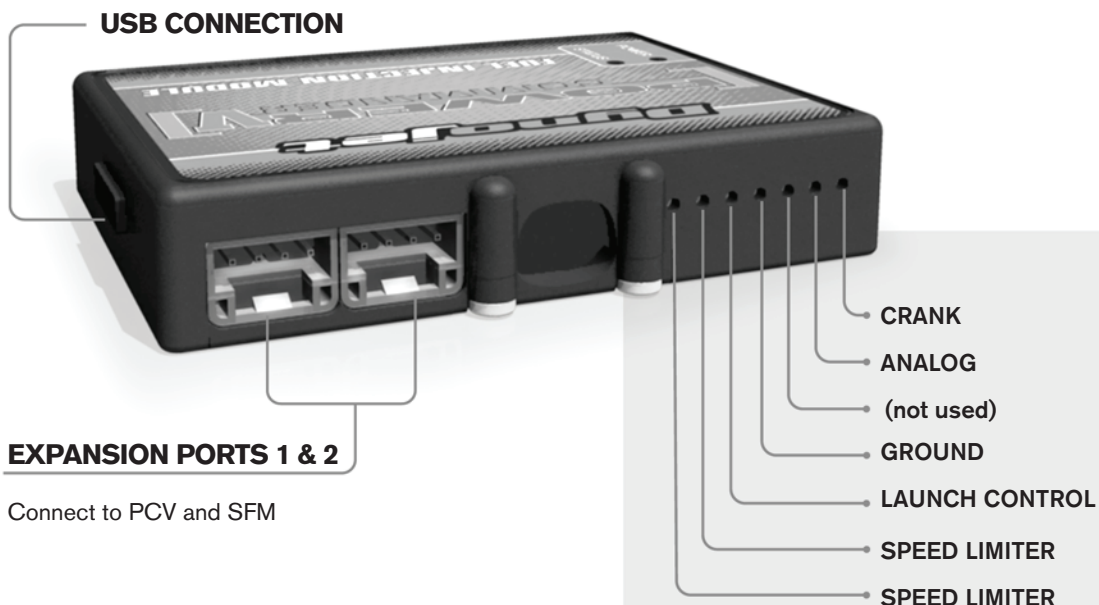|	
1	Ignition Module
1	CD-ROM
1	Installation Guide
2	Velcro
1	Alcohol swab
1	CAN cable
1	CAN termination plug
1	USB cable

THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION!
BEFORE THIS MODULE CAN BE USED THE POWER COMMANDER MAY NEED TO BE UPDATED. (SEE INCLUDED INSTRUCTIONS)

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

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IGNITION MODULE V
INPUT ACCESSORY GUIDE

ACCESSORY INPUTS

USB CONNECTION

EXPANSION PORTS 1 & 2

Connect to PCV and SFM

- CRANK
- ANALOG
- (not used)
- GROUND
- LAUNCH CONTROL
- SPEED LIMITER
- SPEED LIMITER

Speed This input has the ability to activate a limiter based on speed. This is intended to be used as a pit lane speed limiter. You can use any OPEN / CLOSED type switch to activate this feature.

Launch This input is intended to be used as a launch control. You can set a target RPM to limit the bike to when the clutch lever is activated. Once the clutch lever is released full RPM can be achieved. This requires a wire be connected to the grounding side of the clutch switch and the other end into this input.

Ground This is a digital ground. You can connect the BLACK/WHITE crank wire of the SFM to this location if necessary.

Analog- Not currently used - updates to follow

Crank- Connect the WHITE crank wire from the SFM (if installed) to this input. This is only needed if you are going to use the Rev Xtend feature.

Wire connections:

To input wires into the IM first remove the rubber plug on the backside of the unit and loosen the screw for the corresponding input. Using a 22-24 gauge wire strip about 10mm from its end. Push the wire into the hole of the IM until is stops and then tighten the screw. Make sure to reinstall the rubber plug.

NOTE: If you tin the wires with solder it will make inserting them easier.

FIG.A

FIG.B

FIG.C

1   Remove the seats.

2   Place the ignition module in the tail section and route the harness towards the front of the bike.

3   Route the harness underneath the fuel tank bracket and to the left hand side of the battery (Fig. A). The bolts for the fuel tank bracket will need to be removed temporarily to make room for the Ignition Module harness.

Figure A was taken with the fuel tank removed. The fuel tank does NOT need to be removed to perform this installation.
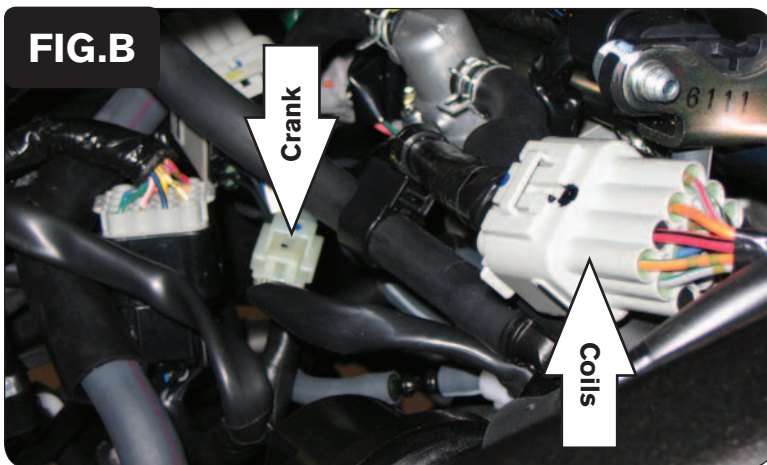
4   Lift the front of the fuel tank up.

5   Unplug the sub-connector for the ignition coils (Fig. B).

This is a GREY 12 pin connector.

6   Unplug the crank pickup coil connector (Fig. B).

This is a CLEAR 2 pin connector.
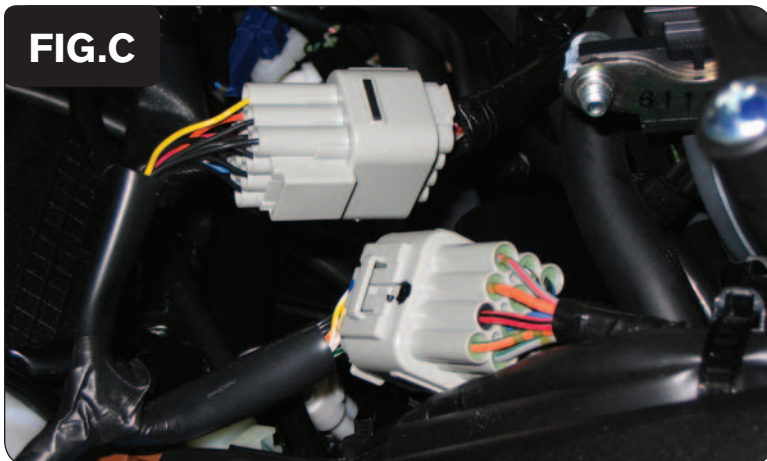
7   Plug the Ignition Module connectors in-line of the stock wiring harness and coil harness (Fig. C).

FIG.D

FIG.E

FIG.F

8   Plug the Ignition Module connectors in-line of the stock wiring harness and stock crank connector (Fig. D).
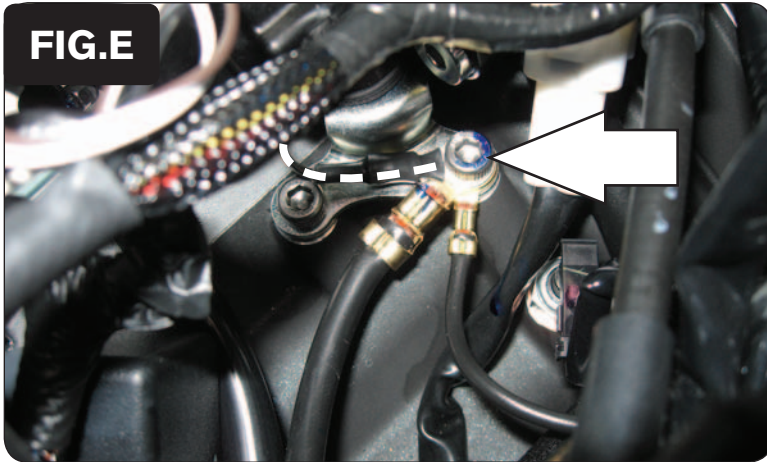
9   Attach the ground wire of the Ignition Module to the common ground location on top of the engine case (Fig. E).

You can follow the negative wire from the battery to this location.
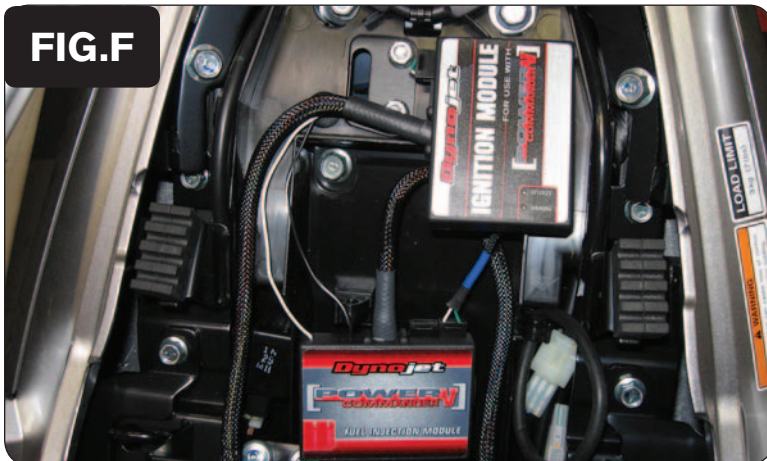
10 Plug the CAN cable into 1 of the ports of the Ignition Module and the other end into 1 of the ports of the PCV.

11 Plug the CAN termination plug (plastic) into any one of the remaining open ports of the Ignition Module or PCV.

12 Install the Ignition Module near the PCV. Use the supplied velcro to secure the unit in place. Make sure to clean both surfaces before attaching with the alcohol swab.

13 Reinstall fuel tank.

PCV

Ignition Module

7 6 5 4 3 2 1

7 6 5 4 3 2 1

From SFM

Speed limiter use inputs 6 & 7

Lauch control input 5

Connecting the Ignition Module to the PCV:

- The WHITE and the BLK/WHT wires from the Ignition Module are used ONLY if you want to use the Rev Xtend feature of the PCV. If you do NOT plan on using this feature then just tape the wires out of the way.

- If you do plan on using the Rev Xtend feature then connect the WHITE wire from the Ignition Module to the #1 input position of the PCV. Connect the BLK/WHT wire to the #4 input position of the PCV. The BLK/WHT wire can also be connected to the #6 input position of the PCV if necessary.

- If you are also using the SFM (Secondary Fuel Module) then you will need to connect the WHITE and BLK/WHT wires from the SFM into the Ignition Module. Connect the WHITE wire from the SFM to the #1 input position of the Ignition Module. Connect the BLK/WHT wire to the #4 input position of the Ignition Module. The BLK/WHT wire can also be connected to the #6 input position of the Ignition Module if necessary.

Adding the Ignition Module to the PCV network:

- First download the latest version of Control Center software which is 1.0.5.8.

- To use the Ignition Module you may need to update your firmware in the PCV (and SFM if being used). Make sure the units are updated to firmware version 1.6.10 or newer. Go to VIEW - Device Information to see the current version. If you need to update the firmware go to Power Commander Tools - Update firmware. The latest version of firmware and software can be found on the downloads page of www.powercommander.com or on the included CD.

- Connect a USB cable to the PCV and another USB cable to the Ignition Module. The software will ask you to add the Ignition Module to the network. Click OK. Go to Power Commander Tools - Manage Network and click on Sync Devices Utility. Follow the on screen instructions.