IGNITION MODULE

FOR USE WITH

2010-2012 Kawasaki Z1000/Ninja 1000



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



BEFORE THIS MODULE CAN BE USED THE
POWER COMMANDER MAY NEED TO BE LIDDATED

POWER COMMANDER MAY NEED TO BE UPDATED.

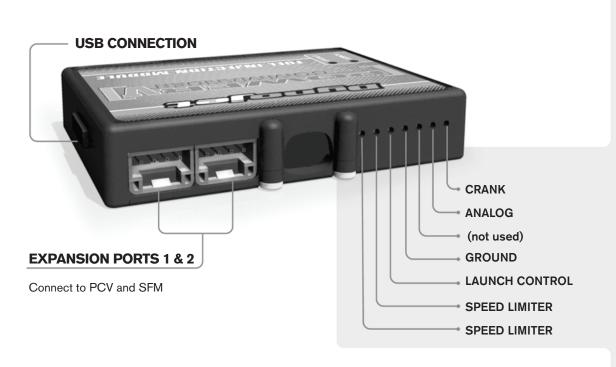
(SEE INCLUDED INSTRUCTIONS)

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION



2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 www.powercommander.com

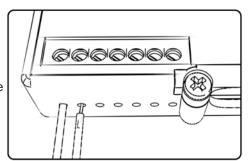
IGNITION MODULE V INPUT ACCESSORY GUIDE



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.



ACCESSORY INPUTS

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

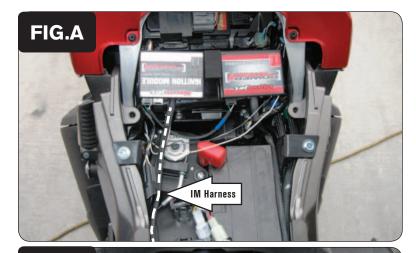
This is a digital ground. You can connect the BLACK/WHITE crank wire of the SFM to this location if necessary.

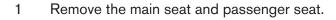
Analog-

Not currently used - updates to follow

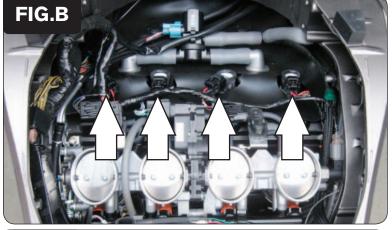
Crank-

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.

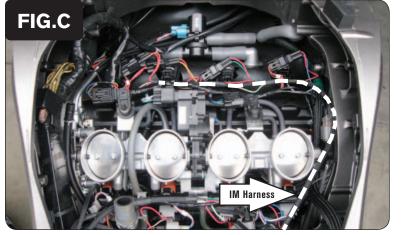




- 2 Remove the fuel tank and the airbox.
- Place the ignition module next to the PCV and route the harness towards the front of the bike going down the right side of the bike (Fig. A).



4 Unplug the stock wiring harness from each coil stick (Fig. B).



5 Plug the IM wiring harness in-line of the stock harness and coils (Fig. C).

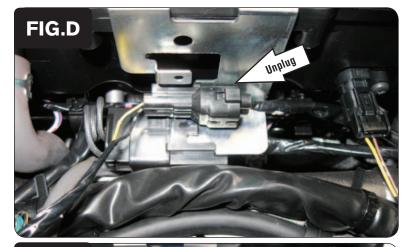
IM Harness:

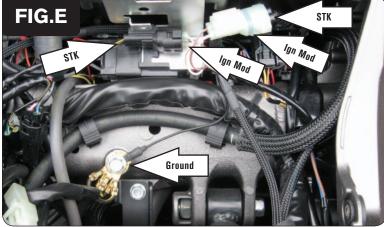
ORANGE - Cylinder #1 (left)

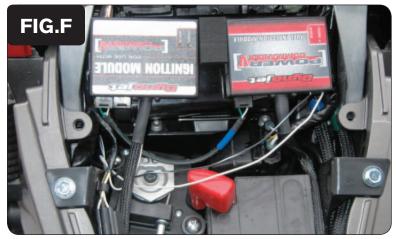
YELLOW - Cylinder #2

GREEN - Cylinder #3

BLUE - Cylinder #4 (right)





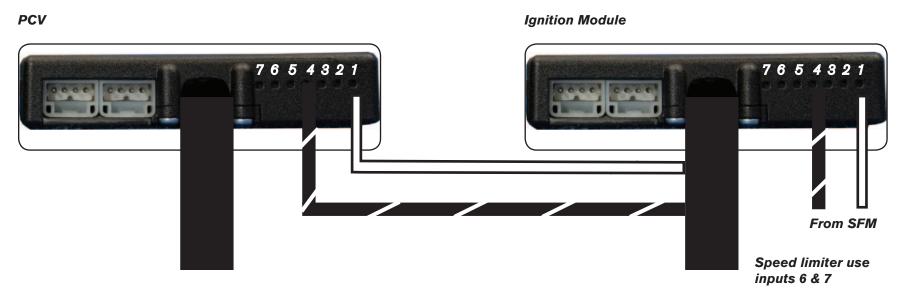


- 6 Unplug the bike's Crank Position Sensor connectors (Fig. D).
 - These are the BLACK 2-pin connectors at the front of the airbox.

- Plug the IM harness in-line with the bike's Crank Position Sensor connectors.
- 8 Secure the ground eyelet of the IM harness to the ground bolt on top of the frame (Fig. E).
- 9 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.
- 10 Plug the CAN termination plug (plastic) into any one of the remaining open ports of the Ignition Module or PCV.
- 11 Connect the WHITE and BLACK/WHITE wires of the Ignition Module to the PCV module wire inputs, as described on Page 5. Use the supplied velcro to secure the unit in place. Make sure to clean both surfaces before attaching with the alcohol swab.

These WHITE and BLACK/WHITE wire connections are only required if using the Rev-Extend feature.

12 Reinstall the airbox, fuel tank, and both seats.



Launch control input 5

Connecting the Ignition Module to the PCV:

- The WHITE and the BLK/WHT wires from the Ignition Module should be connected to the PCV module if using the Rev-Extend feature.
- 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 1.0.6.1.
- 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 0.1.8.3 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.