

IGNITION MODULE

FOR USE WITH

2009-2012 Honda CB1000R

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



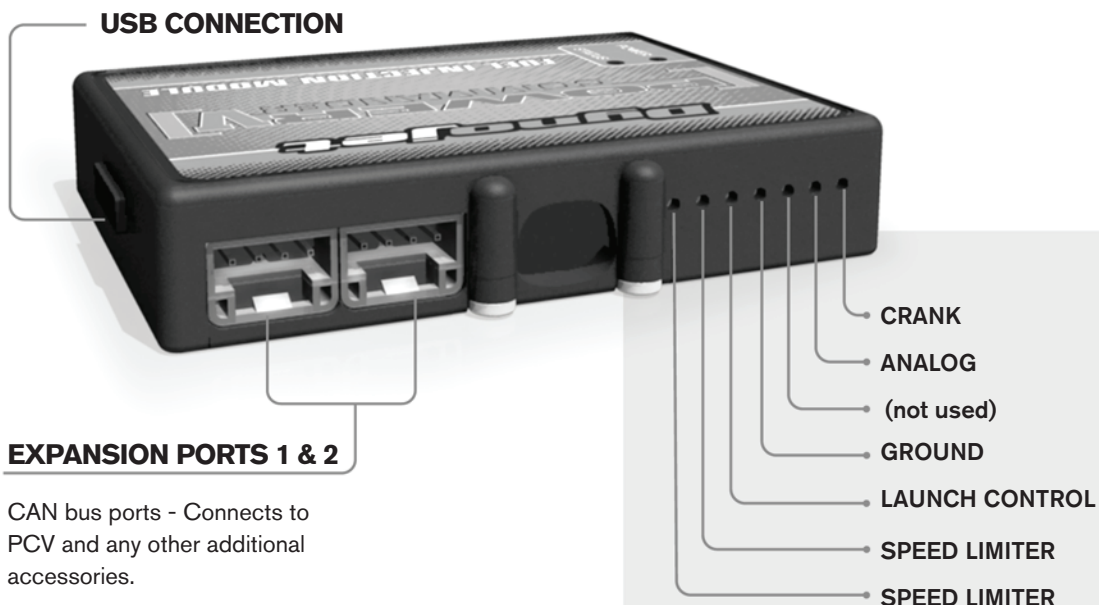
**THE IGNITION MUST BE TURNED OFF BEFORE
INSTALLATION!
BEFORE THIS MODULE CAN BE USED THE
POWER COMMANDER MAY NEED TO BE UPDATED.
(SEE INCLUDED INSTRUCTIONS)**

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

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IGNITION MODULE V INPUT ACCESSORY GUIDE



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 it 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

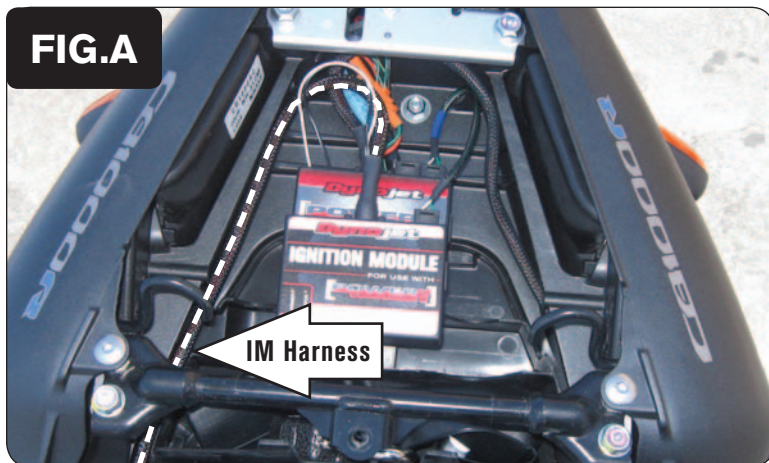
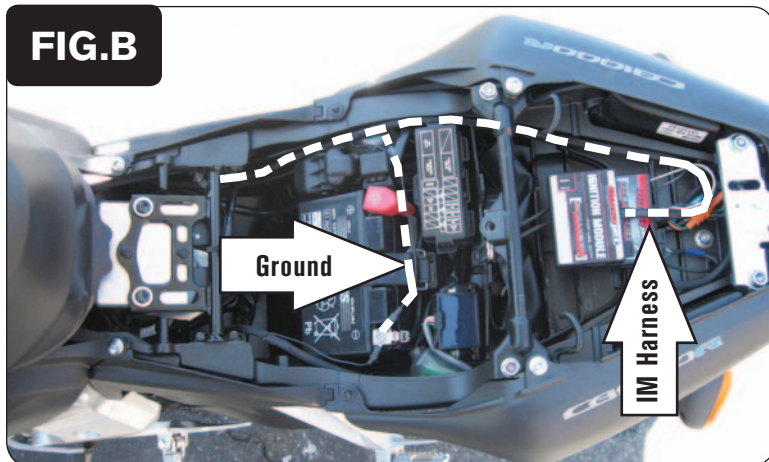
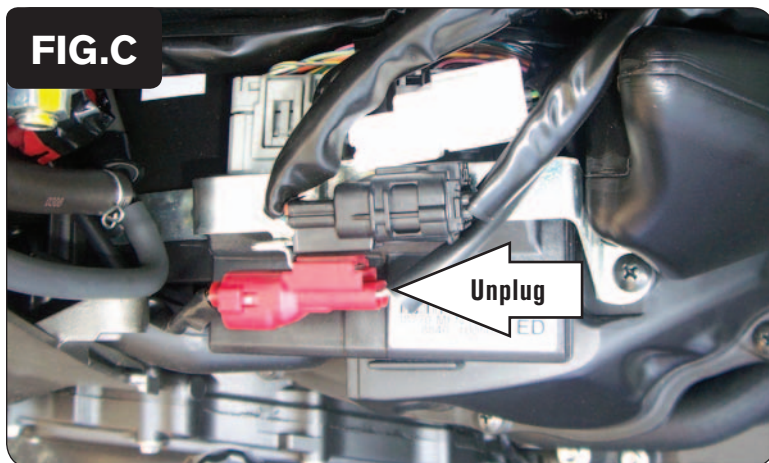
This is a digital ground. It is not currently used for anything.

Analog-

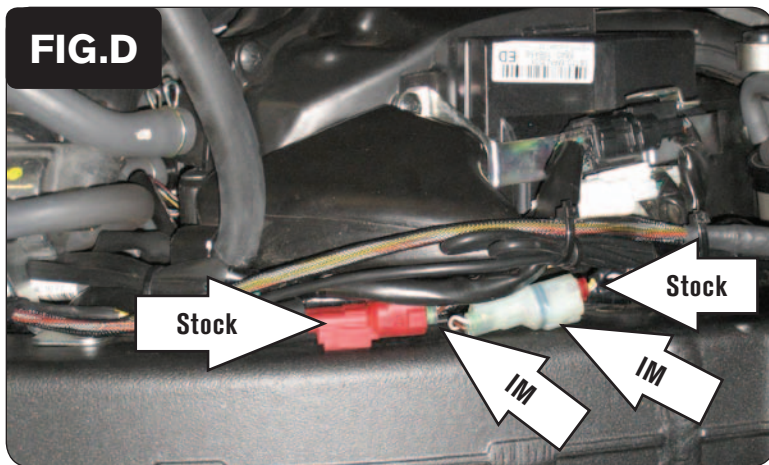
Not currently used - updates to follow

Crank-

Not used

FIG.A**FIG.B****FIG.C**

- 1 Remove the seat.
- 2 Remove the left and right side panels.
- 3 Remove the fuel tank.
- 4 Install the Ignition module on top of the PCV (Fig. A).
The velcro can be used if necessary to keep the unit in place.
- 5 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.
- 6 Plug the CAN termination plug (plastic) into any one of the remaining open ports of the Ignition Module or PCV.
- 7 Route the harness of the Ignition Module down the right hand side towards the front of the bike.
- 8 Connect the ground wire to the negative terminal of the bike's battery (Fig. B).
- 9 Locate the RED 2 pin Crank Position Sensor connector (Fig. C).
You can find it on top of the stock ECU on the right hand side of the bike towards the rear of the airbox.
- 10 Unplug this connector.



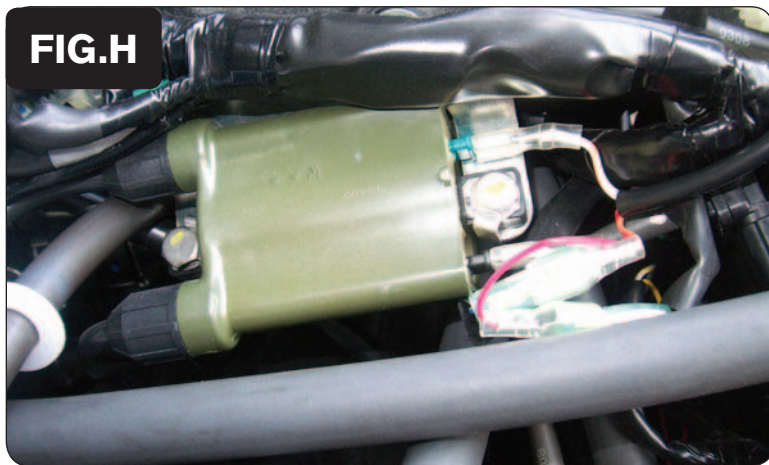
- 11 Plug the connectors from the Ignition Module in-line of the stock wiring harness and Crank Position Sensor connector (Fig. D).



- 12 Route the IM harness up to the right coil.
- 13 Unplug the YELLOW/BLUE wire of the coil (Fig. E).
The YELLOW/BLUE wire is connected to the GREEN pin of the coil.



- 14 Plug the YELLOW colored wires of the Ignition Module in-line of the stock YELLOW/BLUE wire and the coil (Fig. F).
- 15 Route the remainder of the Ignition Module harness under the frame to the left side of the bike.



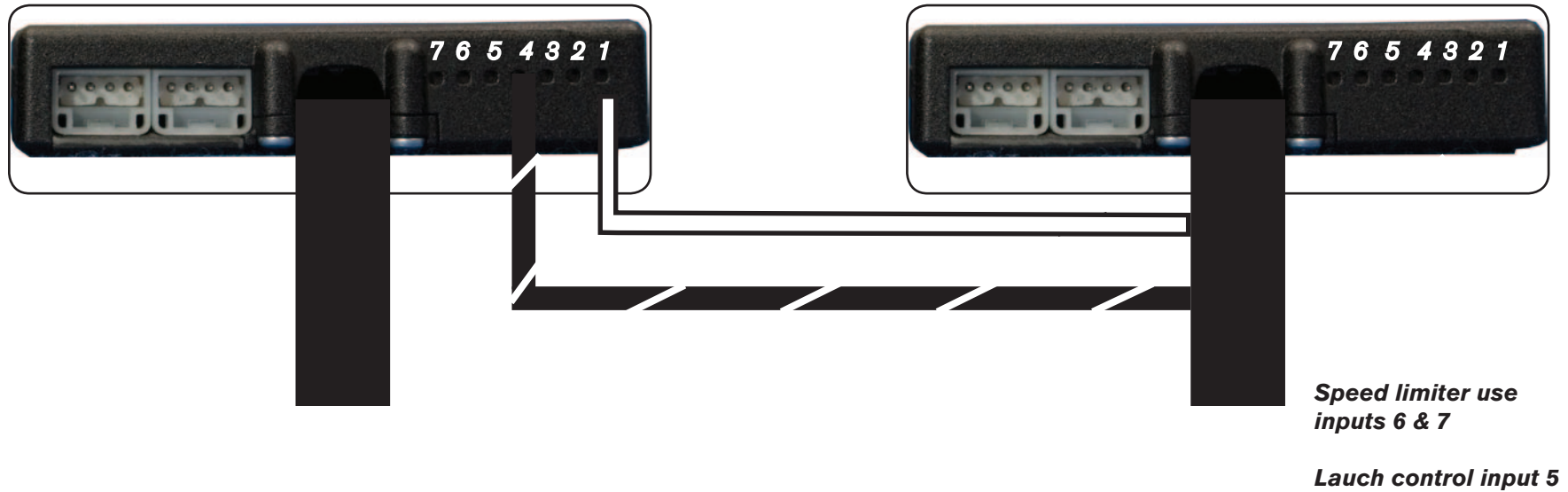
- 16 Locate the left coil (Fig. G).
- 17 Unplug the BLACK/WHITE wire from the left coil.
The BLACK/WHITE wire is connected to the BLACK (lower) pin of the coil.
- 18 Plug the RED colored wires of the Ignition Module in-line of the stock BLACK/WHITE wire and the coil (Fig. H).
- 19 Unplug the BLUE/YELLOW wire from the left coil (Fig. G).
The BLUE/YELLOW wire is connected to the GREEN (upper) pin of the coil.
- 20 Plug the ORANGE colored wires of the Ignition Module in-line of the stock BLUE/YELLOW wire and the coil (Fig. H).

Connecting to the clutch wire for launch control (optional):

On the BLACK ECU connector you will find a GREEN/WHITE wire from the bike's clutch switch. Connect a wire from the Ignition Module's launch control input to this GREEN/WHITE wire of the clutch switch.

PCV

Ignition Module



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.

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. Make sure both of the units are updated to firmware version 0.1.8.8 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.