

IGNITION MODULE

FOR USE WITH

2008-2016 Honda CB1000R

Installation Instructions

PARTS LIST

- 1 Ignition Module
- 1 Installation Guide
- 2 Velcro strips
- 1 Alcohol swab
- 1 CAN link cable
- 1 USB cable
- 1 Posi-tap



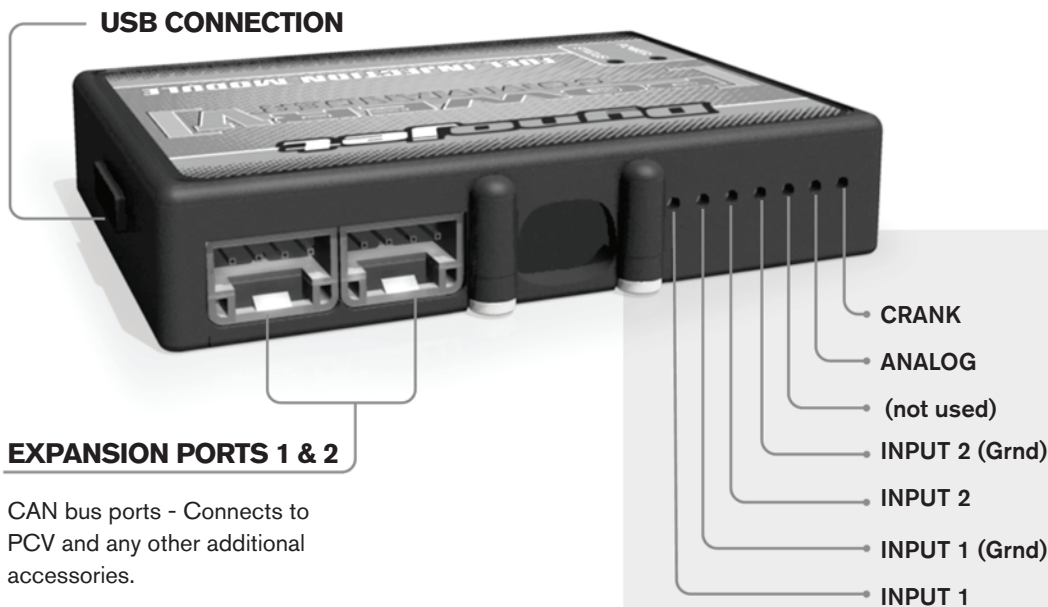
**THE VEHICLE'S IGNITION MUST BE TURNED OFF
DURING THIS INSTALLATION!
BEFORE THIS MODULE CAN BE USED THE
POWER COMMANDER 5 MAY NEED TO BE UPDATED.
(SEE INCLUDED INSTRUCTIONS.)**

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

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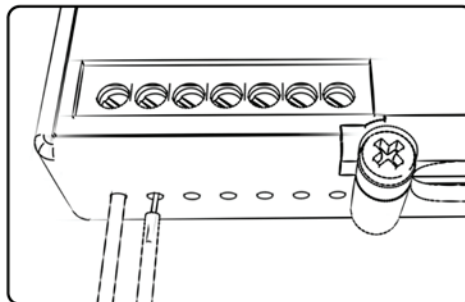
IGNITION MODULE V INPUT ACCESSORY GUIDE



Wire connections:

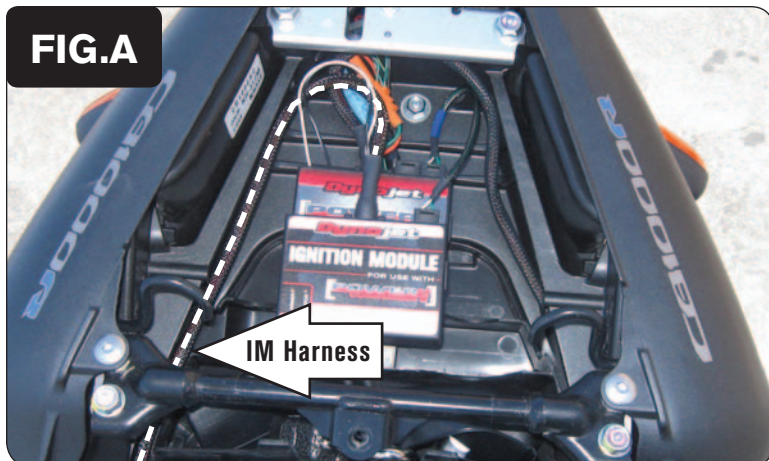
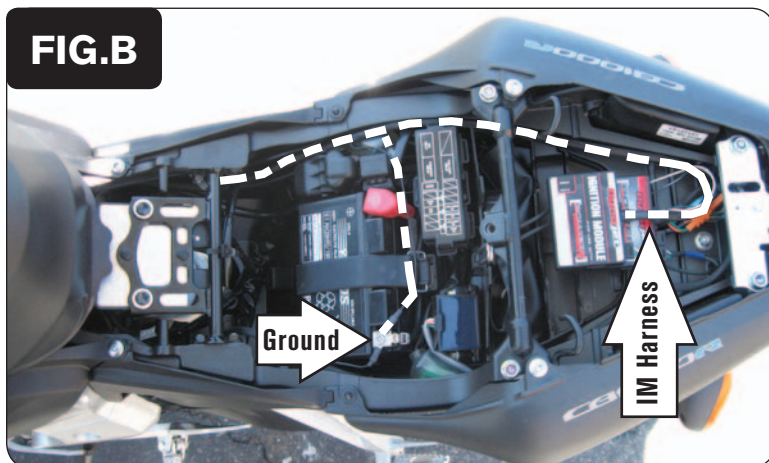
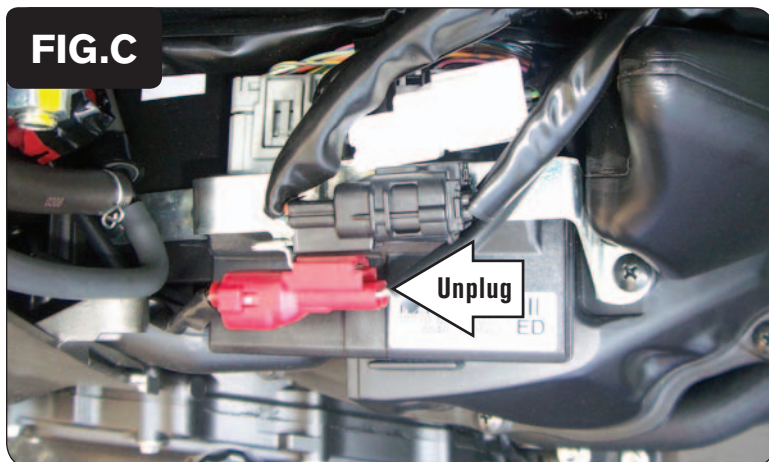
To input wires into the IM first remove the rubber plug on the backside of the unit and loosen the screw for the corresponding input. Using a 22-24 gauge wire strip about 10mm from its end. Push the wire into the hole of the IM until it stops and then tighten the screw. Make sure to reinstall the rubber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

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



ACCESSORY INPUTS

- Speed -** The Speed Limiter feature uses Switch Input #1 or #2. This feature gives the ability to activate a limiter based on vehicle 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. The feature is configured to Switch Input #1 by default.
- Launch -** The Launch Control feature also uses Switch Input #1 or #2. This feature is intended to be used as a two stage rev-limiter. 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. The feature is configured to Switch Input #2 by default.
- Grounds -** These are constant digital grounds.
- Analog -** Not currently used - updates to follow
- Crank -** Not used in this application

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 to keep the unit in place. Clean surfaces with the alcohol swab before attaching the Velcro.

- 5 Plug the CAN link cable into one of the expansion ports of the Ignition Module and the other end into one of the expansion ports of the PCV.

It doesn't matter which ports you use.

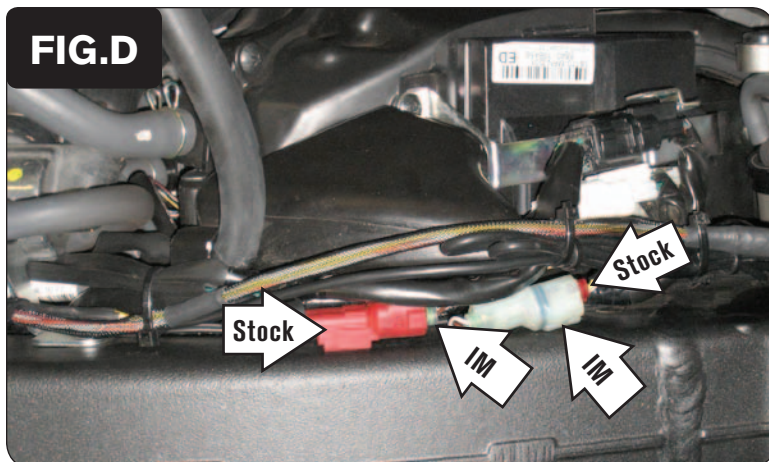
Older Ignition Modules with a serial number beginning with 14 or less might also require a CAN termination plug to be installed in an empty port. Newer Ignition Modules with a serial number starting with 15 or higher do NOT require CAN termination plugs.

- 6 Route the wiring harness of the Ignition Module down the right hand side towards the front of the bike.
- 7 Connect the ground wire with the ring terminal to the negative (-) post of the bike's battery (Fig. B).

- 8 Locate the RED 2-pin Crank Position Sensor connectors (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.

- 9 Unplug this connector pair.



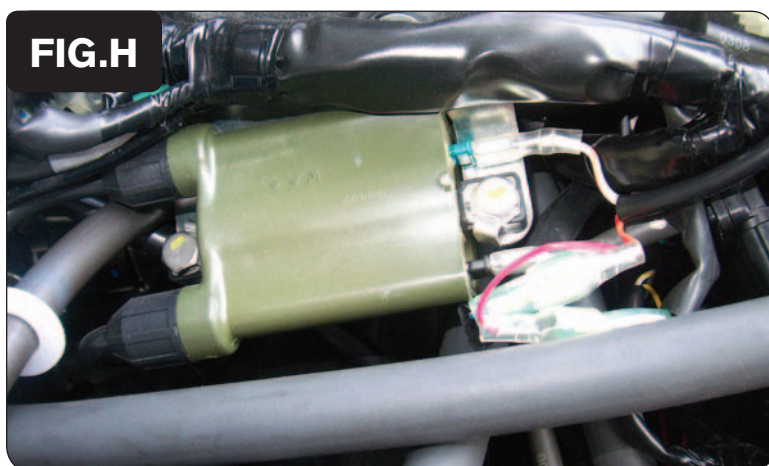
- 10 Plug the connectors from the Ignition Module in-line of the stock Crank Position Sensor connectors (Fig. D).



- 11 Route the Ignition Module harness up to the right ignition coil.
- 12 Unplug the stock YELLOW/BLUE wire of the right ignition coil (Fig. E).
The YELLOW/BLUE wire is connected to the GREEN pin of the coil.



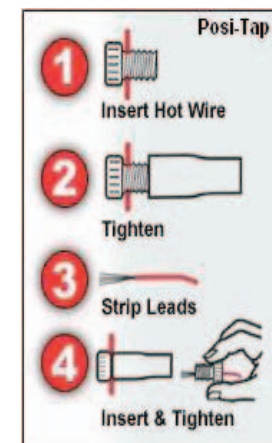
- 13 Plug the YELLOW colored wires of the Ignition Module wiring harness in-line of the right ignition coil and the stock YELLOW/BLUE wire (Fig. F).
- 14 Route the remainder of the Ignition Module wiring harness under the frame to the left side of the bike.



- 15 Locate the left ignition coil (Fig. G).
- 16 Unplug the BLACK/WHITE wire from the left ignition coil.
The BLACK/WHITE wire is connected to the BLACK (lower) pin of the coil.
- 17 Plug the RED colored wires of the Ignition Module wiring harness in-line of the coil and the stock BLACK/WHITE wire (Fig. H).
- 18 Unplug the BLUE/YELLOW wire from the left ignition coil (Fig. G).
The BLUE/YELLOW wire is connected to the GREEN (upper) pin of the coil.
- 19 Plug the ORANGE colored wires of the Ignition Module wiring harness in-line of the coil and the stock BLUE/YELLOW wire (Fig. H).
Make sure to slide the rubber insulators over all of these spade terminal connections to prevent short circuits.
- 20 Reinstall the fuel tank, the removed bodywork, and the seats.

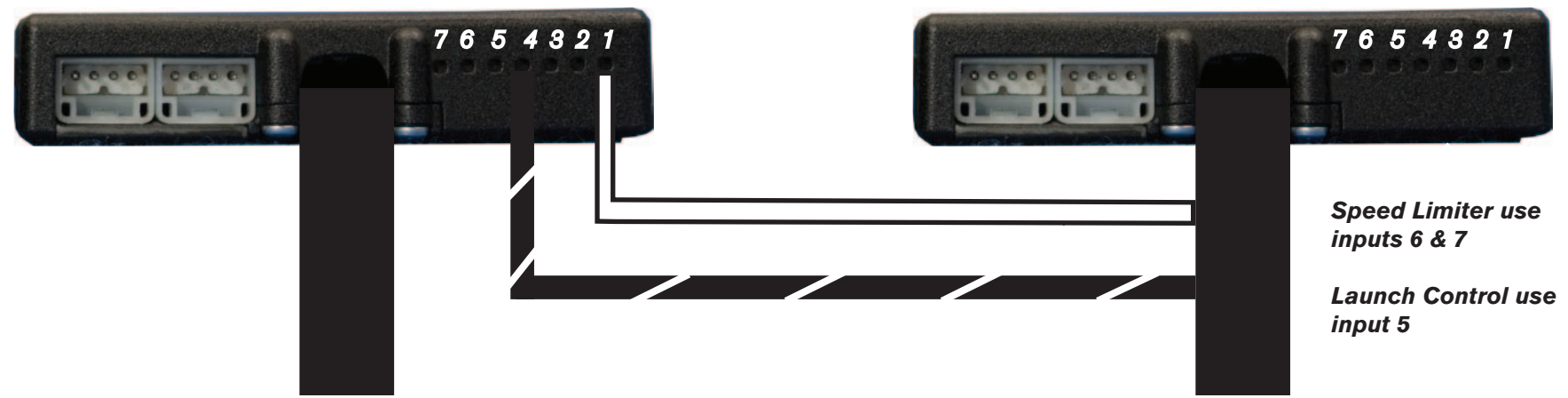
Connecting to the clutch wire for launch control (optional):

On the BLACK ECU connector you will find a GREEN/WHITE wire from the bike's clutch switch. Connect a 22-24 gauge wire from the Ignition Module's Launch Control input to this GREEN/WHITE wire of the clutch switch using the supplied Posi-tap.



PCV

Ignition Module



Connecting the Ignition Module to the PCV:

- The WHITE and the BLACK/WHITE 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, than just tape the wires out of the way.
- If you DO plan on using the Rev Xtend feature, than connect the WHITE wire from the Ignition Module to the #1 input position of the PCV. Connect the BLACK/WHITE wire to the #4 input position of the PCV. The BLACK/WHITE wire can also be connected to the #6 input position of the PCV, if necessary. If both inputs on the PCV are already occupied, you can splice the BLACK/WHITE wire to either wire currently occupying the #6 or #4 PCV inputs.

Adding the Ignition Module to the PCV network:

- First download and install the latest version of the PCV Control Center Software (which is version 1.0.6.4.) from the PCV - Downloads page of www.powercommander.com.
- To use the Ignition Module you may need to update your firmware in the PCV (and SFM if being used). Make sure the PCV, SFM, and Ignition Module are all updated to PCV firmware version 0.1.10.6 or newer. Go to View -> Device Information in the software to see the current versions. If you need to update the firmware, go to Power Commander Tools -> Update Firmware. The latest version of the PCV firmware and software can be found on the PCV - Downloads page of www.powercommander.com.
- 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.