IGNITION MODULE

FOR USE WITH [POWER COMMANDER V]

2008-2015 Honda CBR1000RR

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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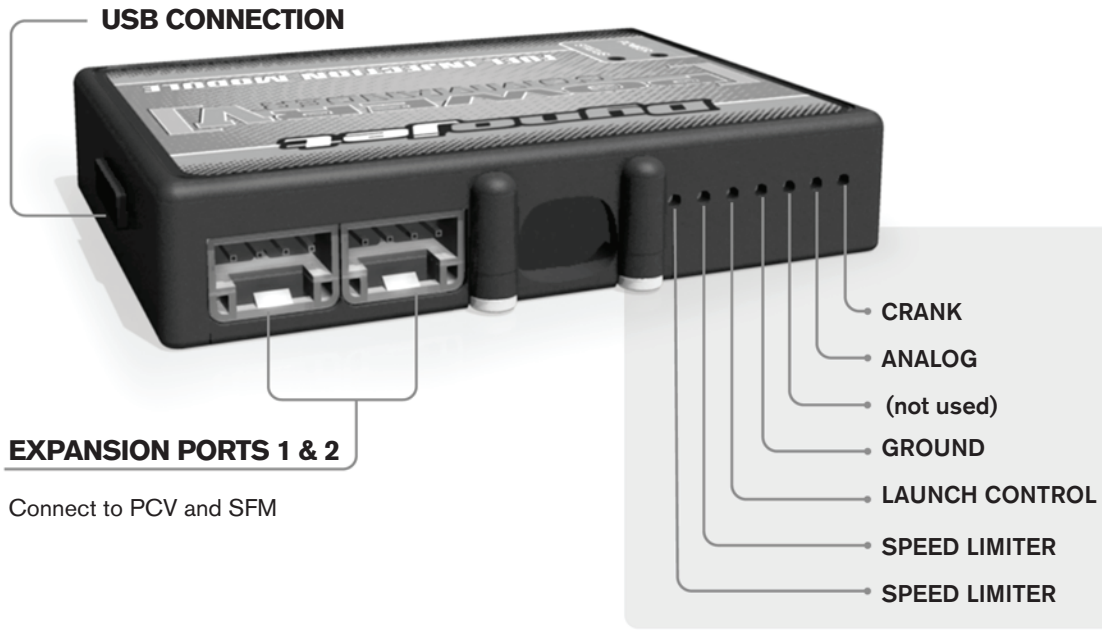
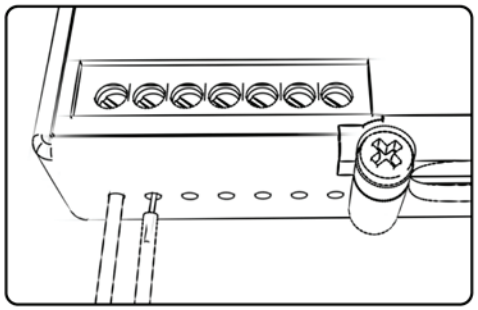
IGNITION MODULE V
INPUT ACCESSORY GUIDE



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 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 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. This feature is configured to Switch Input 1# by default.

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. This feature is configured to Switch Input #2 by default.

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.

FIG.A

FIG.B

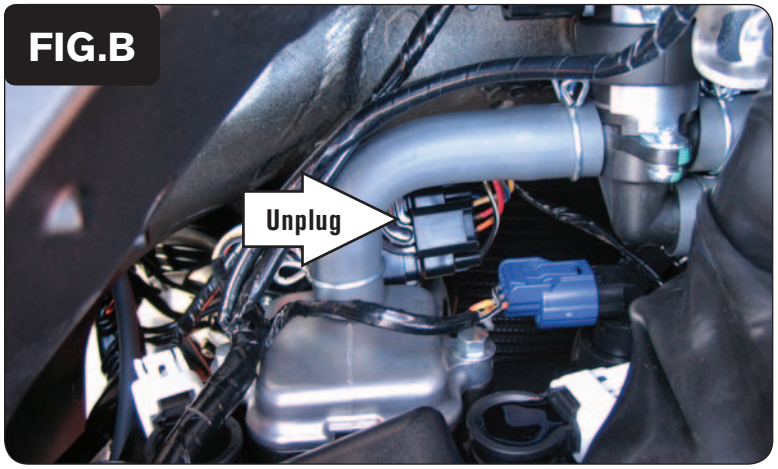
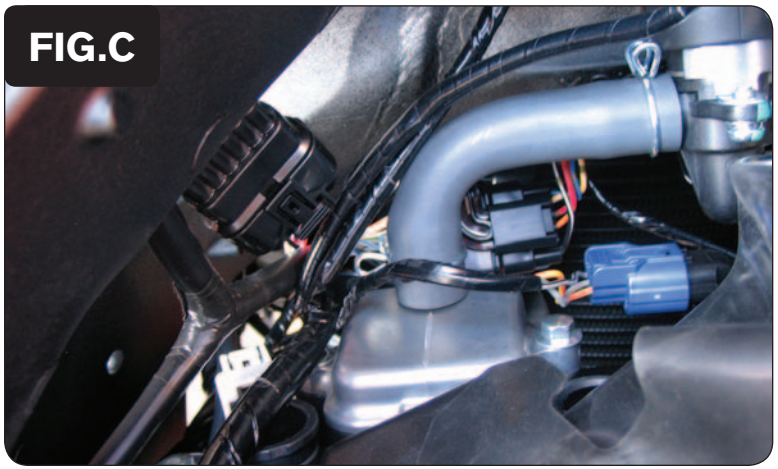


FIG.C



1 Remove the main seat and passenger seat.

2 Remove the fuel tank cover and lift the front of the fuel tank up.

3 Remove the air box.

4 Install the Ignition Module next to the PCV module. The velcro can be used if necessary to keep the unit in place. Clean surfaces with the supplied alcohol swab before attaching the Velcro (Fig. A).

5 Route the harness of the Ignition Module along the PCV harness towards the engine.

6 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 module.

It doesn't matter which ports you use.

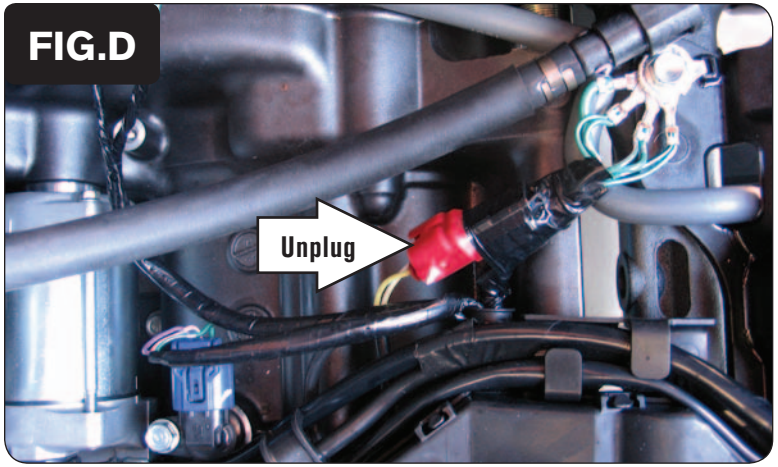
Older Ignition Modules with a serial number beginning with 14 or less might also require a CAN termination plug to be installed in an empty port. Newer Ignition Modules with a serial number starting with 15 or higher do NOT require CAN termination plugs.

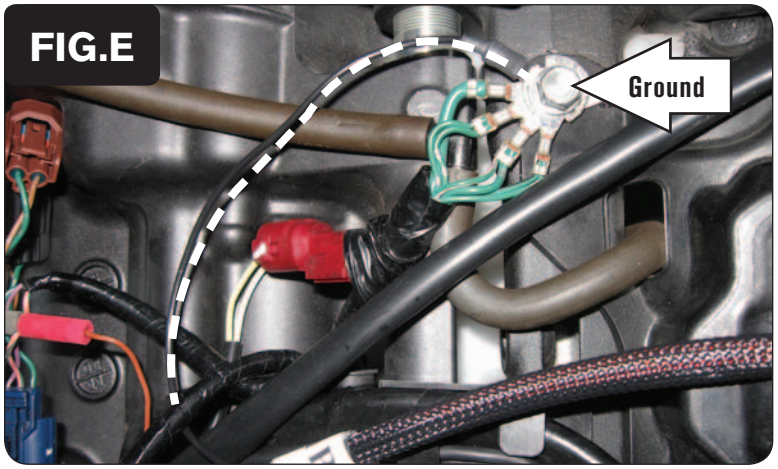
7 Route the IM wiring harness down the left hand side of the bike.

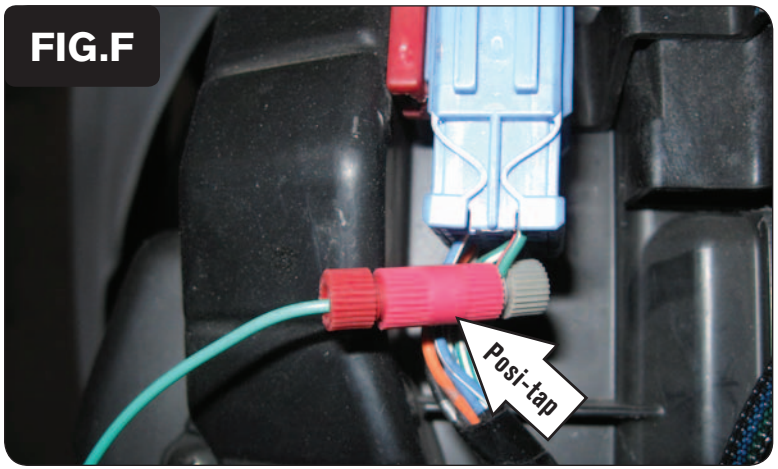
Route the IM wiring harness along the inside of the frame and go towards the cylinder #1 (left most) coil stick.

8 Pull the rubber shield back to access the wiring harness. Unplug the stock wiring harness at the sub-connector for the ignition coil sticks (Fig. B).

9 Plug the connectors from the Ignition Module in-line of the stock wiring harness (Fig. C).







10 Locate the stock Crank Position Sensor connectors.

This is a RED 2-pin connector pair located under the fuel tank.

11 Unplug the stock Crank Position Sensor connectors (Fig. D).

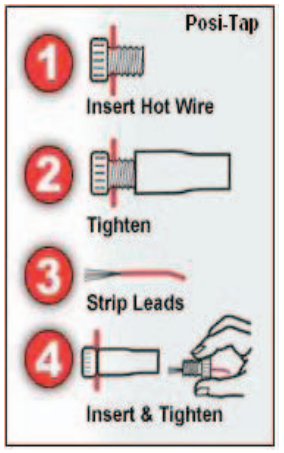
12 Plug the connectors from the Ignition Module wiring harness in-line of the stock Crank Position Sensor connectors.

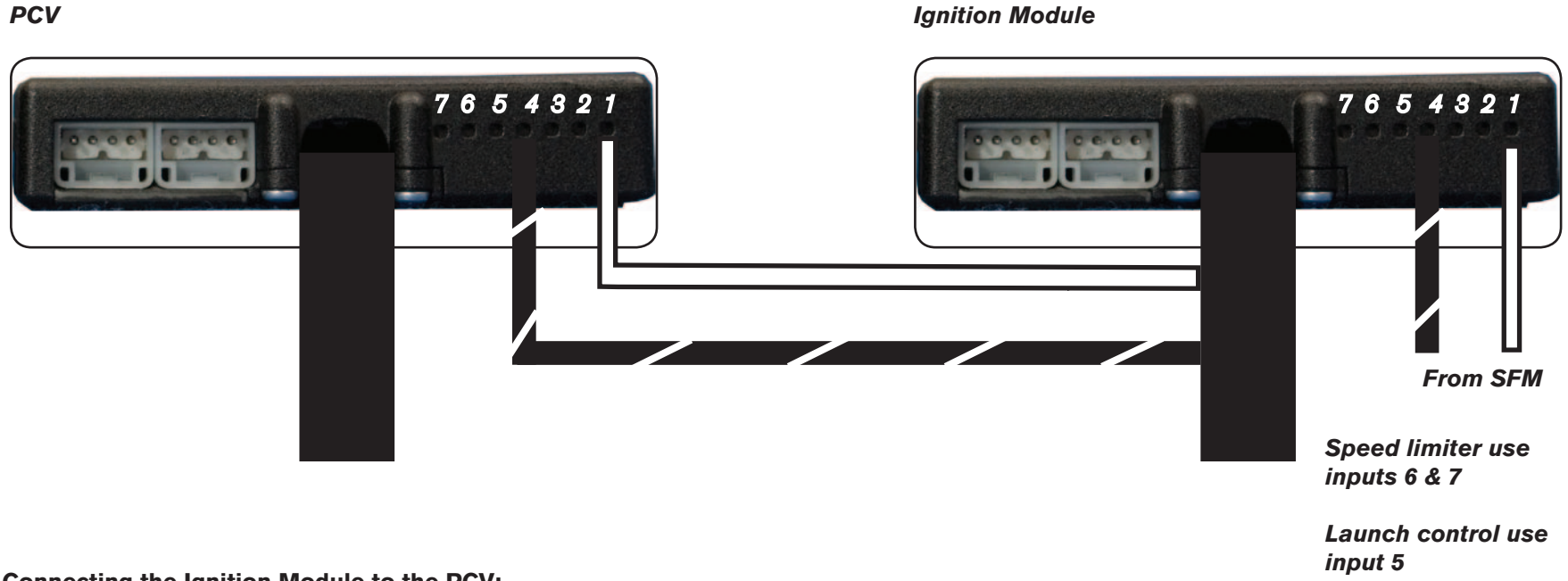
13 Attach the ground wire from the Ignition Module with the small ring terminal to the stock common ground location towards the rear of the engine (Fig. E).

14 Reinstall the air box and fuel tank back into place, making sure that the wiring harness does not get pinched.

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

On top of the airbox you will find a BLUE connector on the left side. Using the supplied Posi-tap, connect a 22-24 gauge wire from the Launch Control input of the Ignition Module to the stock GREEN/RED wire of the stock BLUE connector.





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.
- If you are also using the SFM (Secondary Fuel Module), than you will need to connect the WHITE and BLACK/WHITE 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 BLACK/WHITE wire to the #4 input position of the Ignition Module. The BLACK/WHITE 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 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.