IGNITION MODULE
FOR USE WITH
[POWER COMMANDER V]

Suzuki GSX-R models*

Installation Instructions

PARTS LIST

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

**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.
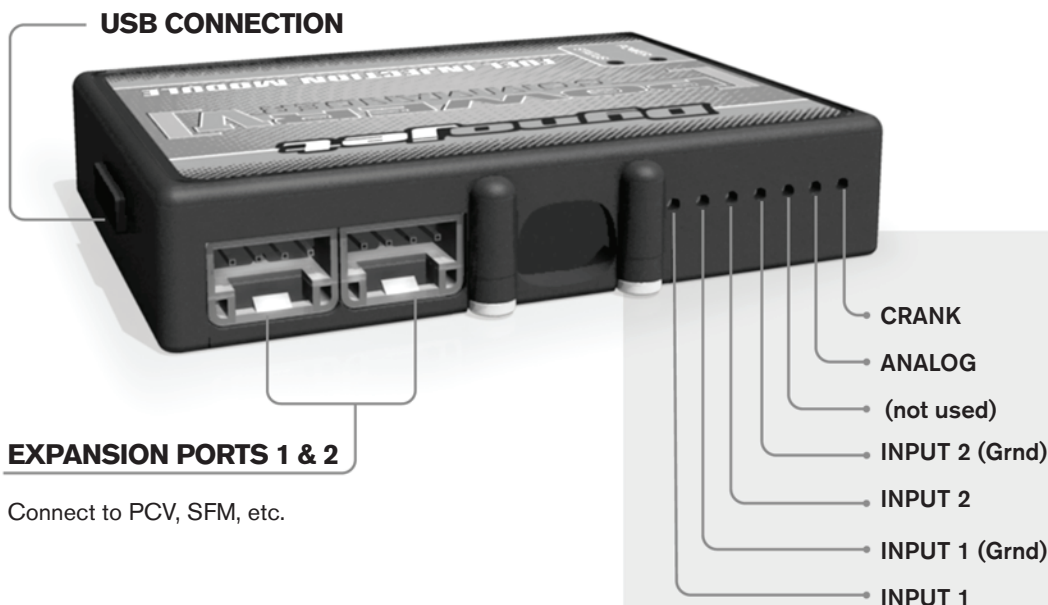(SEE INCLUDED INSTRUCTIONS.)**

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

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* - Specifically, this device is compatible with: 2004-2016 GSX-R600, 2004-2016 GSX-R750, 2003-2016 GSX-R1000, 2011-2013 GSR750, and 2015-2016 GSX-S750.

IGNITION MODULE V
INPUT ACCESSORY GUIDE

ACCESSORY INPUTS

USB CONNECTION

EXPANSION PORTS 1 & 2

Connect to PCV, SFM, etc.

CRANK

ANALOG

(not used)

INPUT 2 (Grnd)

INPUT 2

INPUT 1 (Grnd)

INPUT 1

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.

Ground   These are constant digital grounds. You can connect the BLACK/WHITE crank wire of the SFM (if installed) to either of these locations, if necessary.
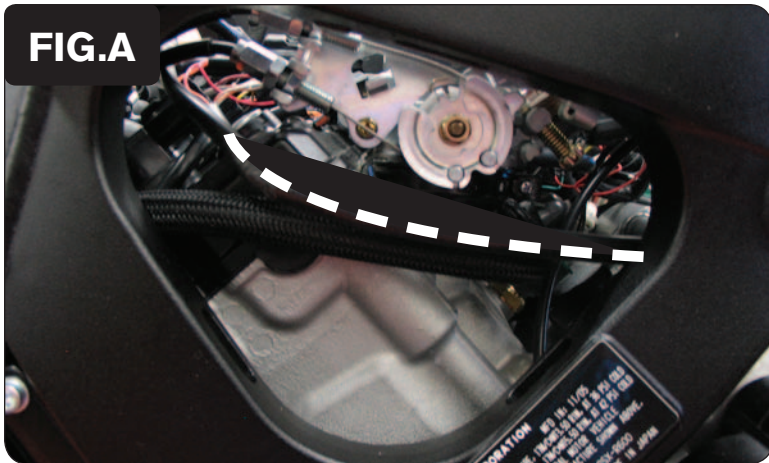
Analog-   Not currently used - updates to follow

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.
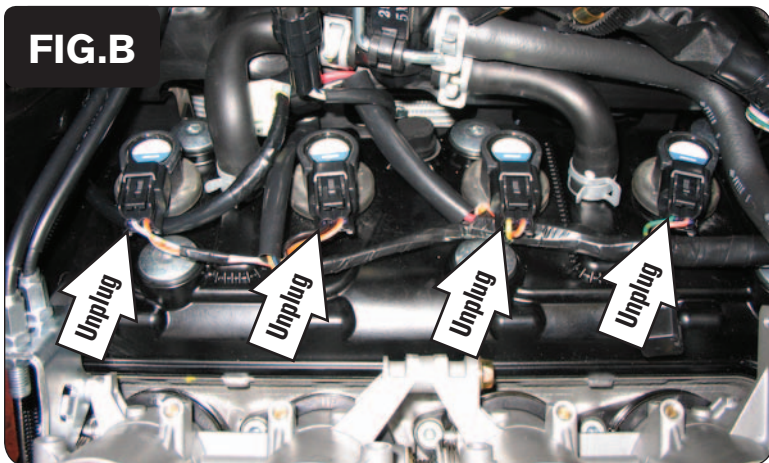
Wire connections:

To input wires into the PCV 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 PCV 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

Unplug Unplug Unplug Unplug

FIG.C

Note: The following pictures were taken on a GSX-R600 and may look different from your actual model.
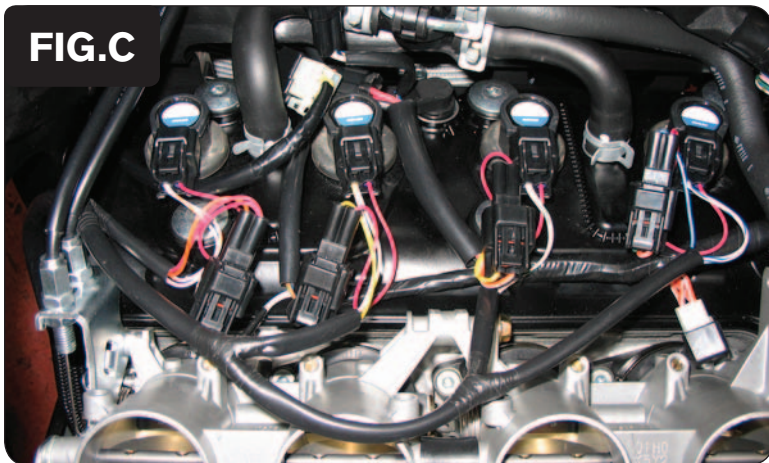
1 Remove the main seat.

2 Remove the fuel tank.

3 Remove the air box.

4 Place the Ignition Module next to the PCV and route the harness down the left hand side and go towards the front of the bike.

5 Route the PCV to the left side of the throttle bodies making sure it does not interfere with the throttle linkage (Fig. A).

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

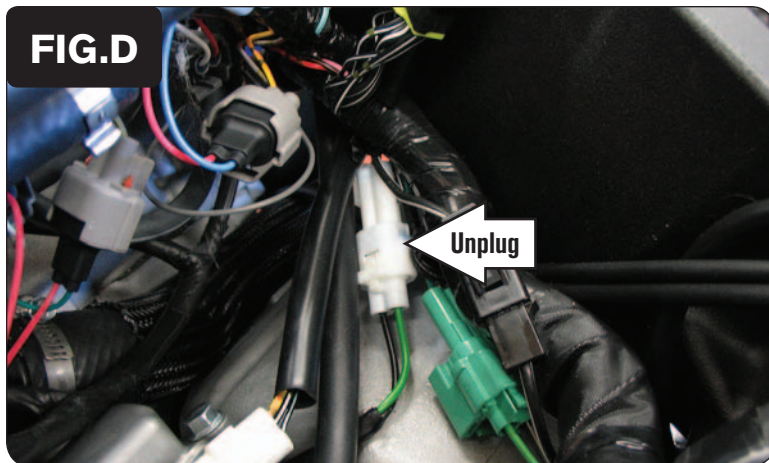7 Plug the Ignition Module wiring harness in-line of the stock wiring harness and each coil stick (Fig. C).

Ignition Module wire colors:

ORANGE - Cylinder #1 (left most)
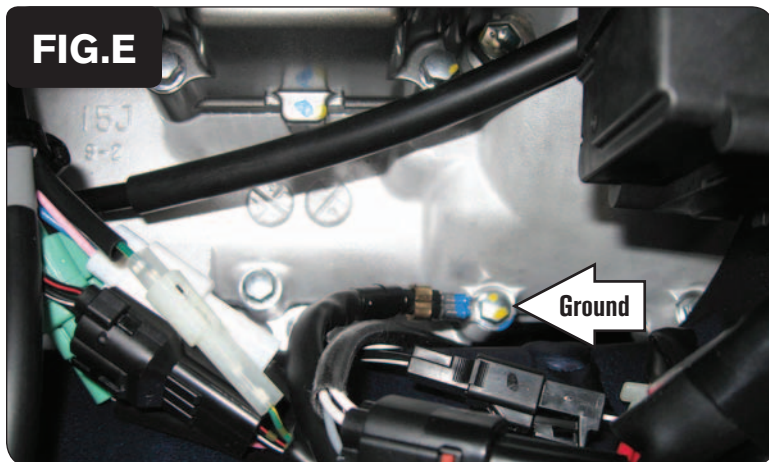
YELLOW - Cylinder #2

GREEN - Cylinder #3

BLUE - Cylinder #4 (right most)

FIG.D

Unplug

FIG.E

Ground

FIG.F

8   Locate and unplug the stock Crank Position Sensor connectors (Fig. D).

This connector is a WHITE 2-pin connector with a BLACK and a GREEN wire located under the fuel tank near the right side of the engine.

9   Plug the pair of WHITE connectors from the Ignition Module in-line of the stock Crank Position Sensor connectors.

10   Attach the ground wire of the Ignition Module with the small ring terminal to the stock common ground location on the back of the engine (Fig. E).

This is where the negative battery cable is connected to.

11   Secure the Ignition Module in the tail section next to the PCV using the supplied Velcro (Fig. F).

Clean surfaces with the supplied alcohol swab before attaching the Velcro.

12   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.

13   Reinstall the airbox, fuel tank, and seats.

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

Launch Control use input 5

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.