

IGNITION MODULE

FOR USE WITH

2017 Suzuki GSX-R1000

Installation Instructions

**[POWER
COMMANDER V]**

PARTS LIST

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



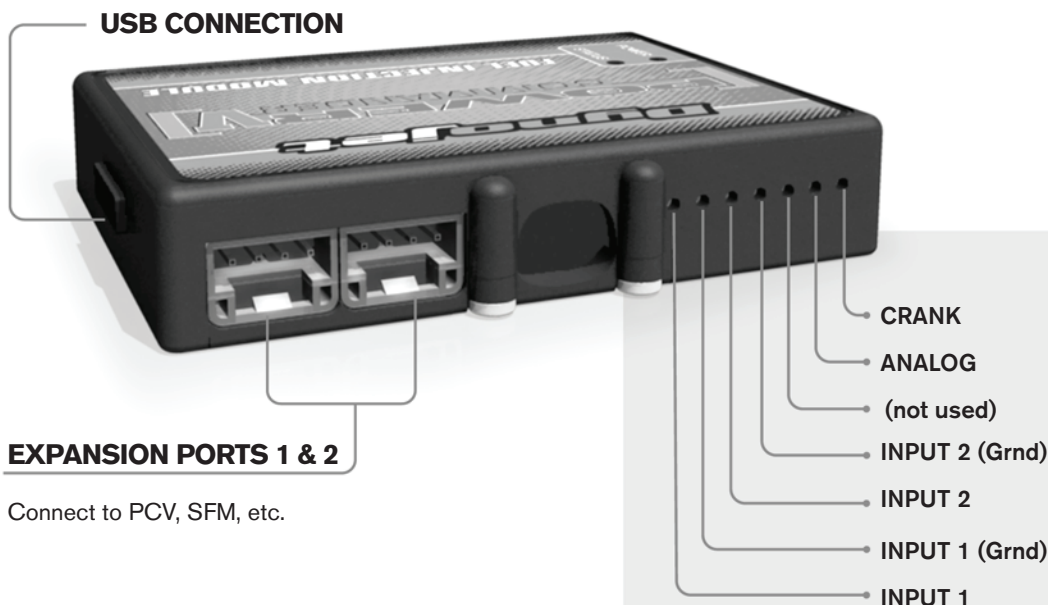
**THE VEHICLE'S IGNITION MUST BE TURNED OFF
DURING THIS INSTALLATION!
BEFORE THIS MODULE CAN BE USED THE
POWER COMMANDER 5 MAY NEED TO BE UPDATED.
(SEE INCLUDED INSTRUCTIONS.)**

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

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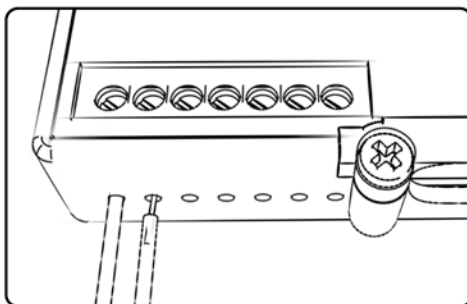
IGNITION MODULE V INPUT ACCESSORY GUIDE



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 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.

Ground

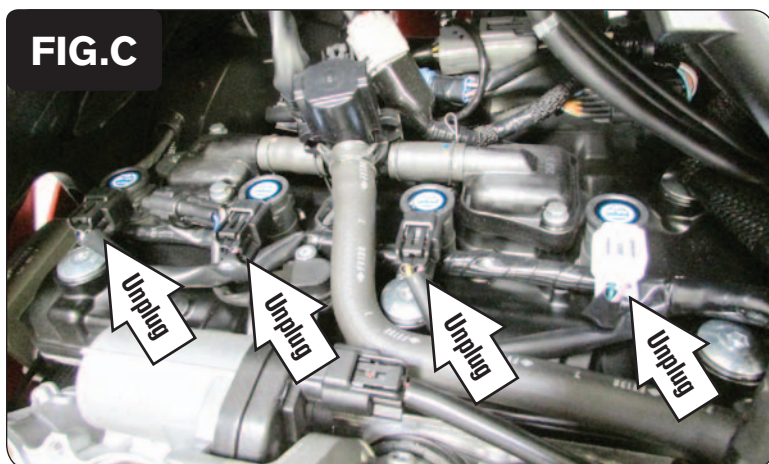
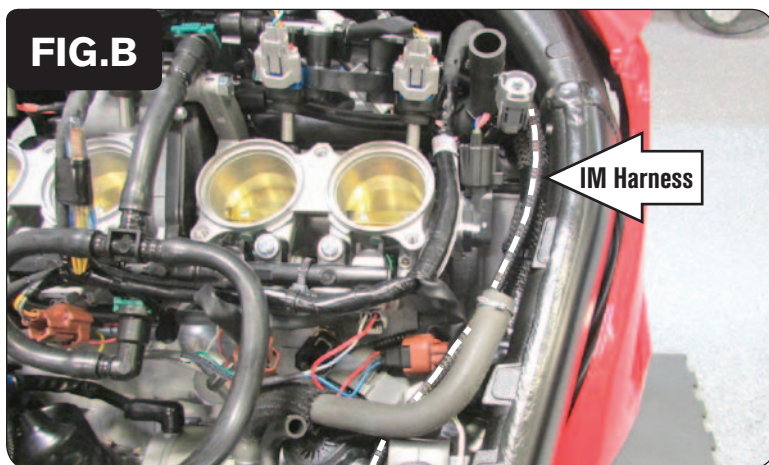
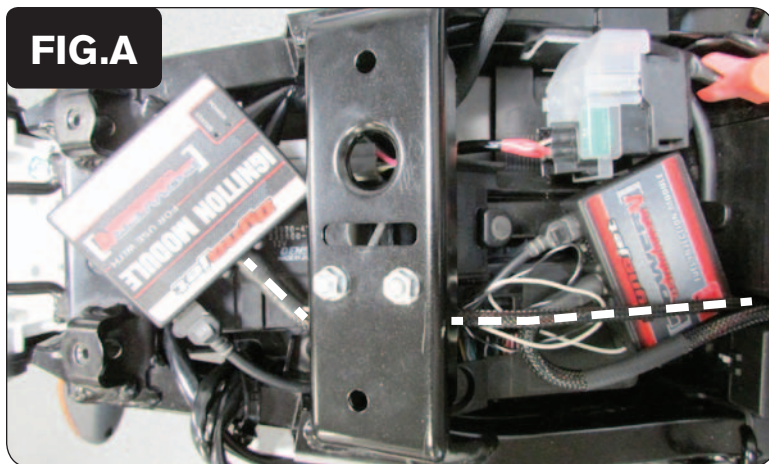
These are constant digital grounds. You can connect the BLACK/WHITE crank wire of the SFM (if installed) to either of these locations, if necessary.

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.



- 1 Remove the seats. Remove the bodywork around the tail section. Remove the bodywork around the fuel tank. Remove the fuel tank. Remove the airbox.
- 2 Store the Ignition Module in the tail section rear of the PCV module and route the harness forward following along the PCV wiring harness down the right side of the bike (Fig. A).

Use the Velcro strips to secure the module. Clean surfaces with the alcohol swab before attaching the Velcro.

- 3 Plug the supplied CAN link cable into one of the expansion ports of the PCV module. Plug the other end of the CAN link cable into one of the expansion ports of the Ignition Module.

It doesn't matter which ports you use.

- 4 Connect the digital crank wires of the Ignition Module's wiring harness (WHITE & BLACK/WHITE) to the wire terminal strip of the PCV module.

See page 5 for more details.

- 5 Route the Ignition Module's wiring harness inside the right frame rail and across the top of the engine (Fig. B).

- 6 Unplug the stock wiring harness from the four Ignition Coil sticks located at the top of the engine (Fig. C).



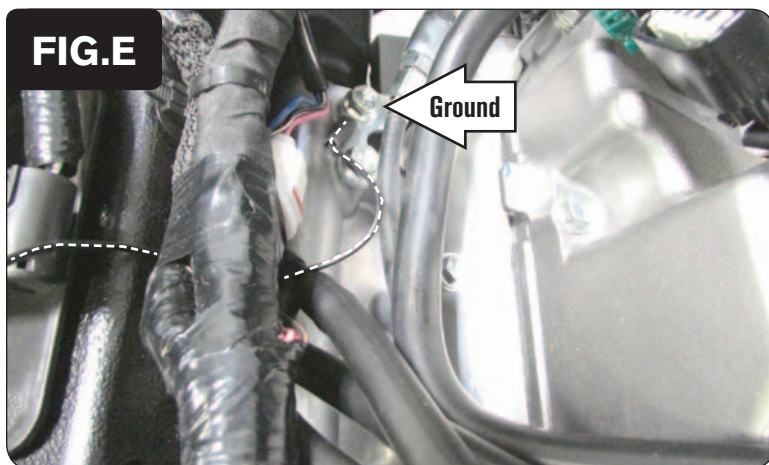
- 7 Plug the Ignition Module wiring harness in-line of the stock wiring harness and each coil stick (Fig. D).

The connectors with ORANGE colored wires go to cylinder #1 (left).

The connectors with YELLOW colored wires go to cylinder #2.

The connectors with GREEN colored wires go to cylinder #3.

The connectors with BLUE colored wires go to cylinder #4 (right).



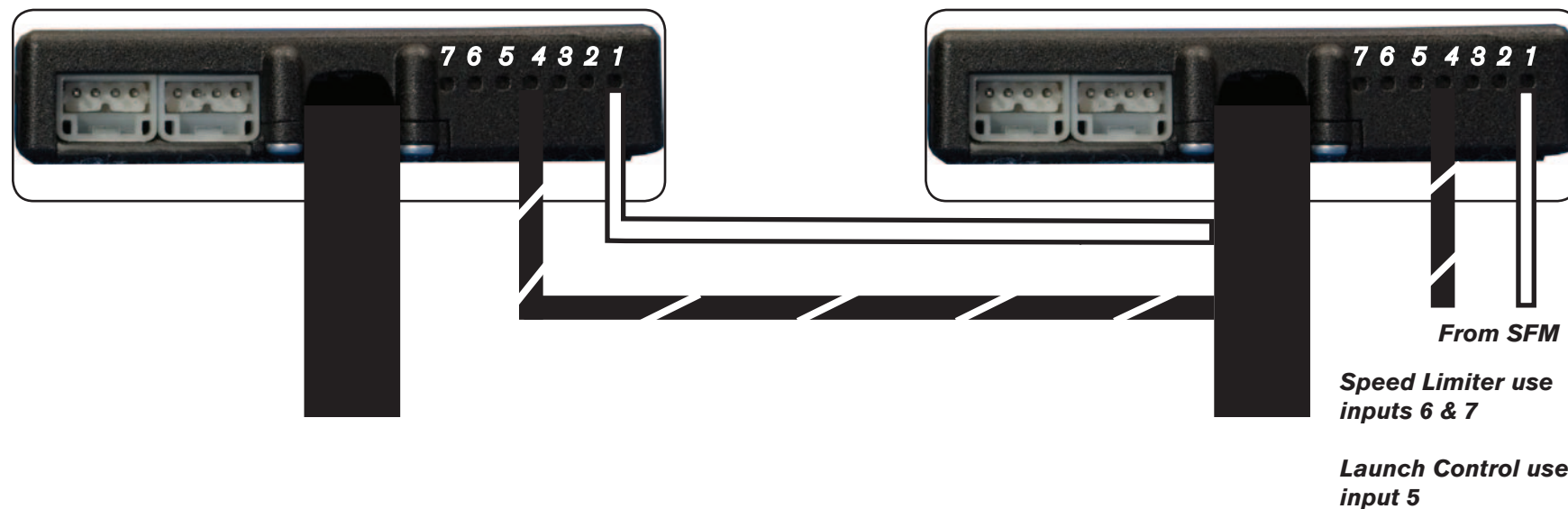
- 8 Secure the Ignition Module's ground wire with the small ring terminal to the engine case bolt at the top of the crank case shown in Figure E.

This is one of the bolts that holds the clutch cable bracket.

- 9 Reinstall the airbox, fuel tank, bodywork, and seats.

PCV

Ignition Module



Connecting the Ignition Module to the PCV:

- The WHITE and the BLACK/WHITE wires from the Ignition Module **MUST** be connected to the PCV module.
- 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) then 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 0.1.14.2 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.