

# IGNITION MODULE

FOR USE WITH

**2005-2006 Kawasaki ZX6R/RR**

## Installation Instructions

**[POWER  
COMMANDER V]**

### 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



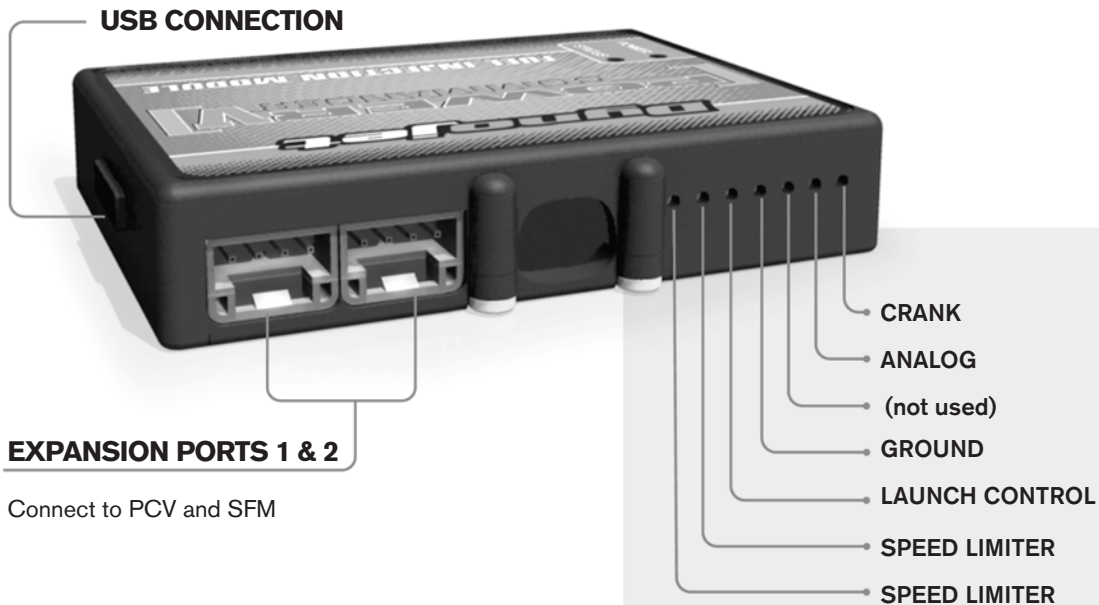
**THE IGNITION MUST BE TURNED OFF BEFORE  
INSTALLATION!  
BEFORE THIS MODULE CAN BE USED THE  
POWER COMMANDER MAY NEED TO BE UPDATED.  
(SEE INCLUDED INSTRUCTIONS)**

**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION**

**Dynojet**

2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 [www.powercommander.com](http://www.powercommander.com)

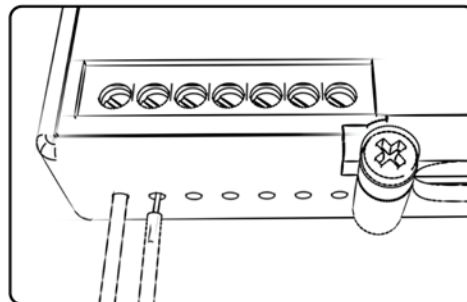
# IGNITION MODULE V INPUT ACCESSORY GUIDE



## 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

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 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.

### Ground

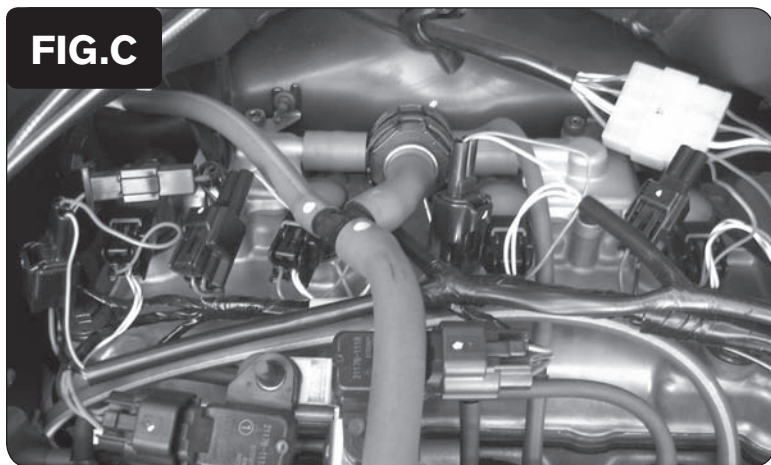
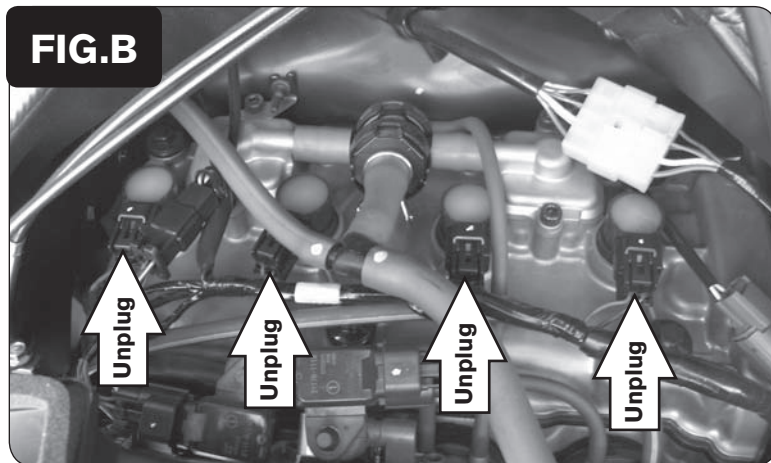
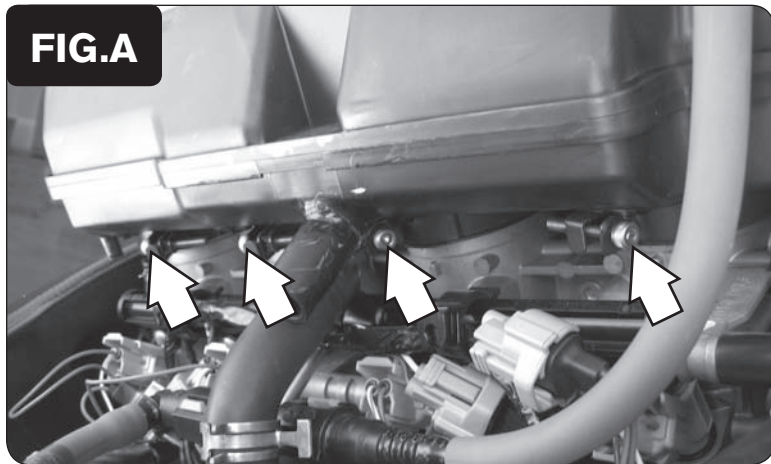
This is a digital ground. You can connect the BLACK/WHITE crank wire of the SFM to this location if necessary.

### 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 X-tend feature.



- 1 Remove the seats.
- 2 Loosen and prop the front of the fuel tank.
- 3 Loosen the 4 allen screws that hold the airbox to the throttle bodies (Fig. A).
- 4 Remove the bolt at the front of the airbox.

*The airbox does NOT need to be completely removed from the bike, but it will need to be lifted far enough to access the coil sticks on the top of the engine.*

- 5 Place the Ignition Module in the tail section next to the PCV module and route the harness forward following inside the left side frame rail.

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

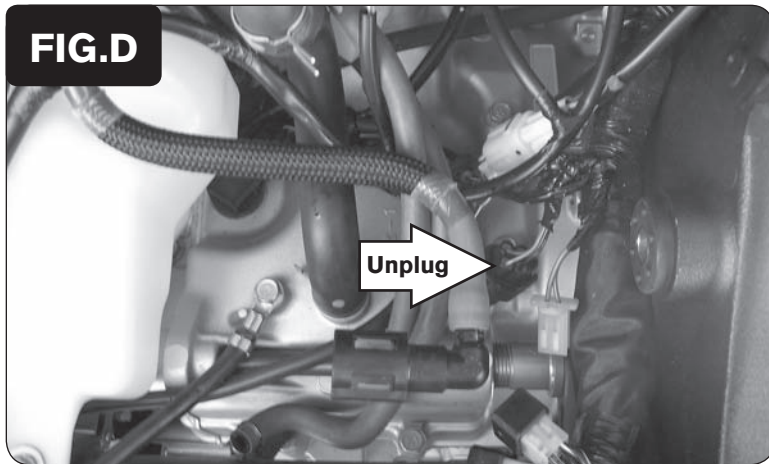
- 7 Plug the Ignition Module harness in-line of the stock wiring harness and the coil sticks (Fig. C).

*Plug the pair of Ignition Module leads with ORANGE colored wires in-line of the cylinder #1 (left most) coil stick.*

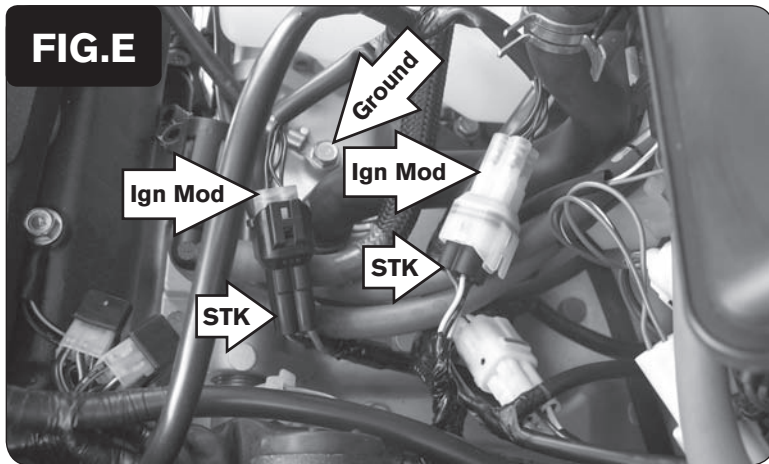
*Plug the pair of Ignition Module leads with YELLOW colored wires in-line of the cylinder #2 coil stick.*

*Plug the pair of Ignition Module leads with GREEN colored wires in-line of the cylinder #3 coil stick.*

*Plug the pair of Ignition Module leads with BLUE colored wires in-line of the cylinder #4 (right most) coil stick.*



- 8 Locate and unplug the stock Crank Position Sensor connectors (Fig. D).
- This is a BLACK 4-pin connector, located under the fuel tank and above the gear box. You can trace the harness from this connector to the right side engine cover.*



- 9 Plug the pair of connectors of the Ignition Module wiring harness in-line of the stock Crank Position Sensor connectors.
- 10 Secure the ground wire of the Ignition Module wiring harness with the ring lug to the common ground location at the top of the engine case (Fig. E).
- 11 Use the supplied CAN link cable to link an available expansion port of the PCV module to an available expansion port of the Ignition Module.
- 12 Plug the supplied CAN termination plug into the other expansion port of the PCV module.



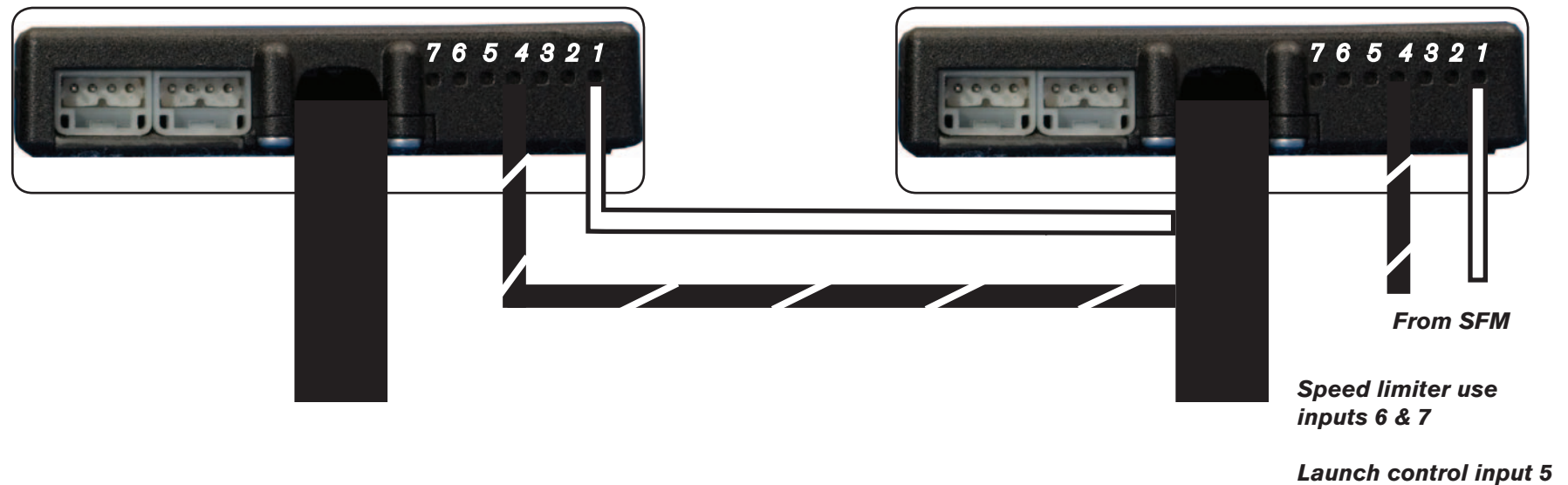
- This is a hard plastic plug supplied in the kit (PN: 76423025), not a rubber dust cover. This is a critical piece that is often overlooked.*
- 13 Using the supplied Velcro, secure the module to the PCV module and secure both in the tail section (Fig. F).
- Clean the surface with the supplied alcohol swab prior to applying the Velcro.*

**Optional Input:**

**Launch Control** - BLACK wire on clutch switch

**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 X-tend 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 X-tend feature then 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 #4 and #6 wire inputs on the PCV are currently occupied, then tap the BLACK/WHITE wire to the wire currently occupying either.
- 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:**

- Download the latest version of PCV Control Center Software from the Downloads section of [www.powercommander.com](http://www.powercommander.com).
- To use the Ignition Module you may need to update your firmware in the PCV. Make sure the PCV and Ignition Module are both updated to firmware version 0.1.10.5 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](http://www.powercommander.com) or on the included CD. If updating firmware for the first time on your computer usb bootloader drivers will need to be installed for the update to be successful. You may need to update again after installing these usb drivers from the first update attempt. Your computer may prompt you to reboot after installing the usb bootloader drivers.
- 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.