

IGNITION MODULE

FOR USE WITH

**2006-2016 Suzuki
M109R / C109R**

Installation Instructions

PARTS LIST

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



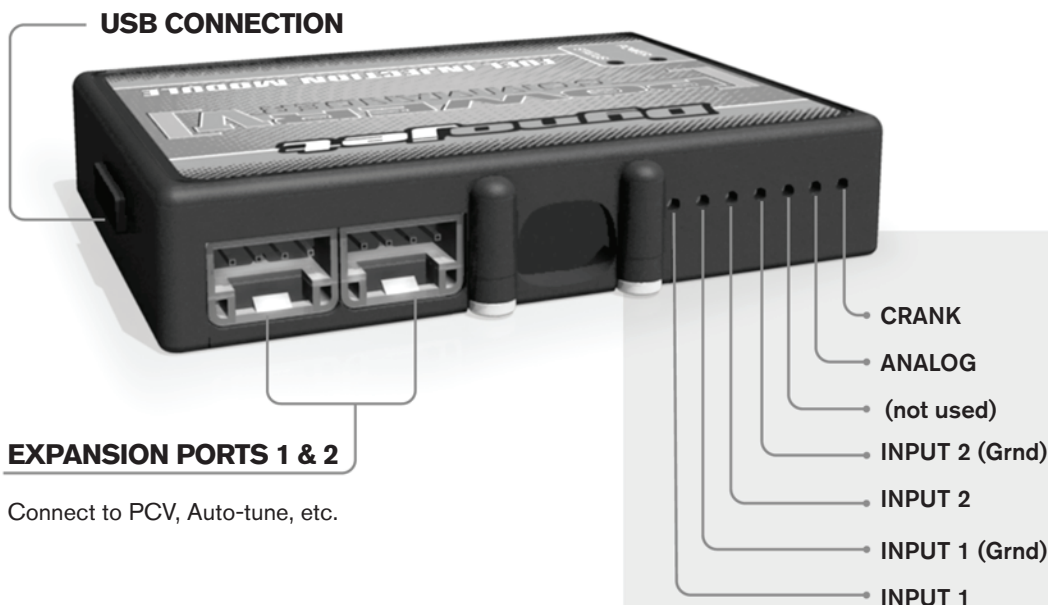
**THE VEHICLE'S IGNITION MUST BE TURNED OFF
DURING THIS INSTALLATION!
BEFORE THIS MODULE CAN BE USED THE
POWER COMMANDER 5 MAY NEED TO BE UPDATED.
(SEE INCLUDED INSTRUCTIONS.)**

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 www.powercommander.com

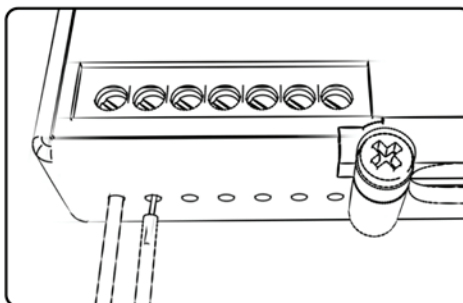
IGNITION MODULE V INPUT ACCESSORY GUIDE



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.

Ground

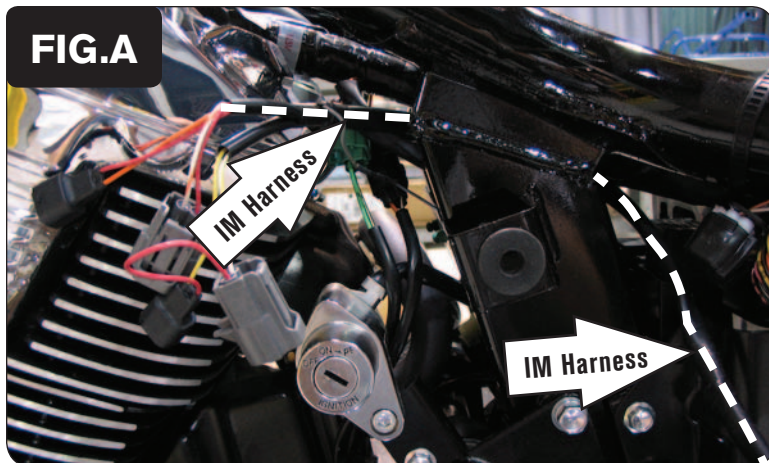
These are constant digital grounds.

Analog-

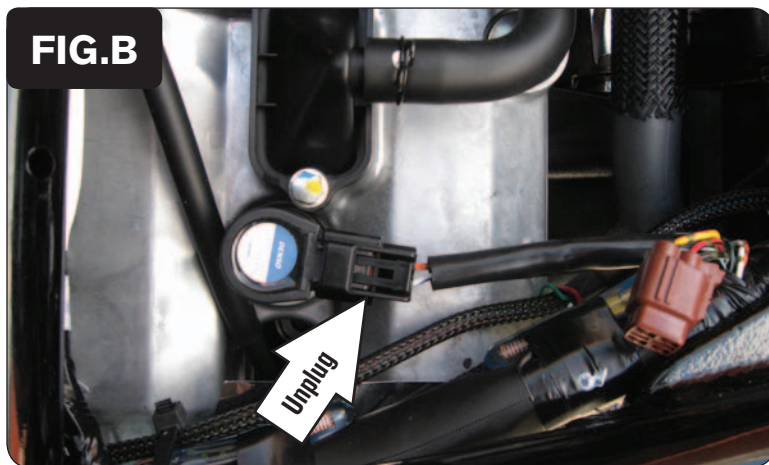
Not currently used - updates to follow

Crank-

Not used in this application



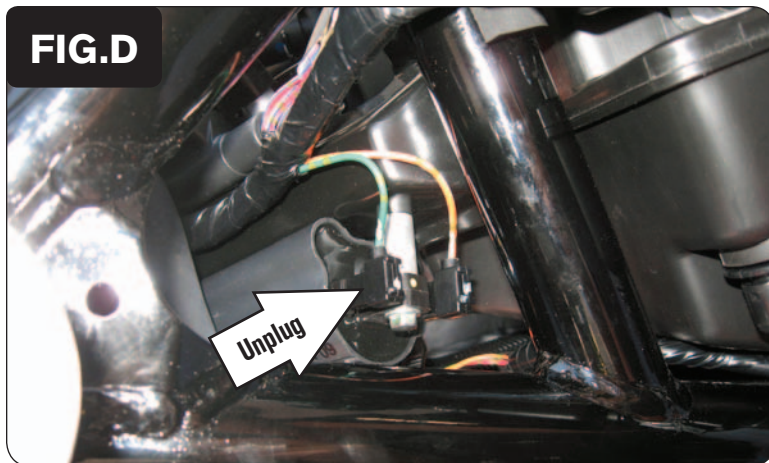
- 1 Remove the main seat and both side covers.
- 2 Remove the fuel tank.
- 3 Route the wiring harness from the Ignition Module inside the frame on the left hand side of the bike and go towards the front of the motorcycle (Fig. A).



- 4 Unplug the stock wiring harness from the rear cylinder coil stick (Fig. B).



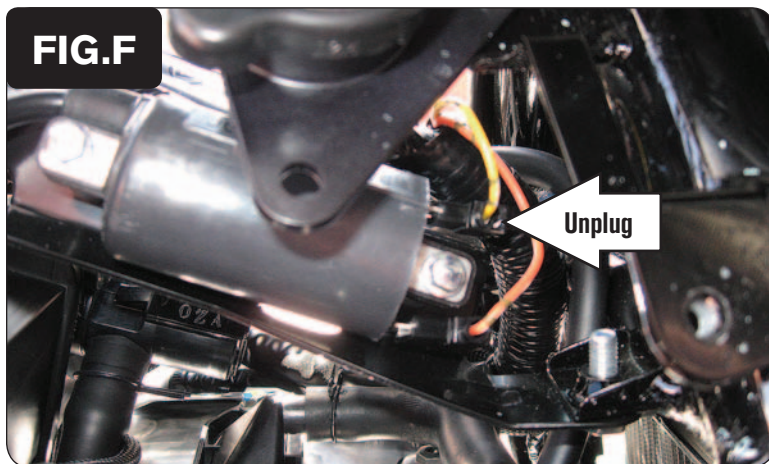
- 5 Plug the pair of Ignition Module connectors with GREEN colored wires in-line of the rear cylinder coil stick and the stock wiring harness (Fig. C).



- 6 Locate the Ignition Coil for the front cylinder towards the front of the airbox. Unplug the stock GREEN wire from the Ignition Coil (Fig. D).



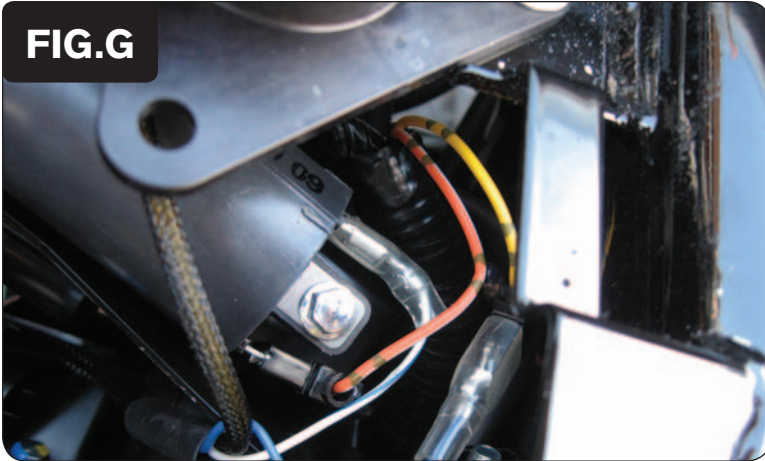
- 7 Plug the YELLOW and WHITE/YELLOW wires from the Ignition Module in-line of the Ignition Coil and the stock GREEN wire (Fig. E).
- 8 Route the other wires from the Ignition Module over to the right side of the motorcycle.



- 9 Locate the Ignition Coil for the rear cylinder towards the front of the airbox on the right side. Unplug the stock YELLOW wire from the Ignition Coil (Fig. F).

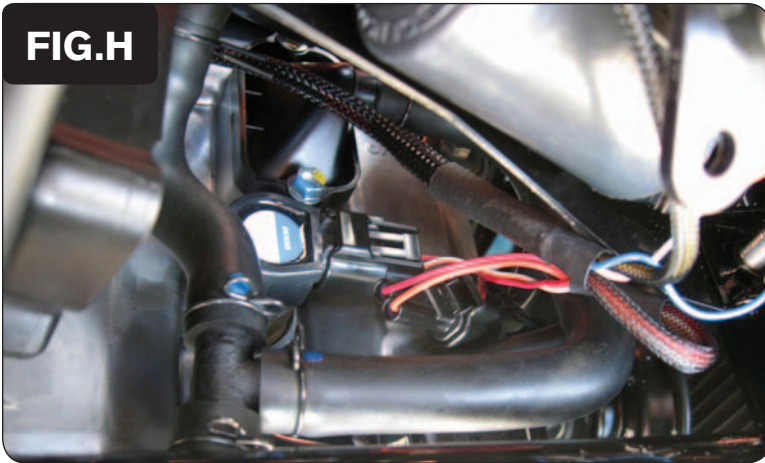
This coil is near the radiator cap.

FIG.G



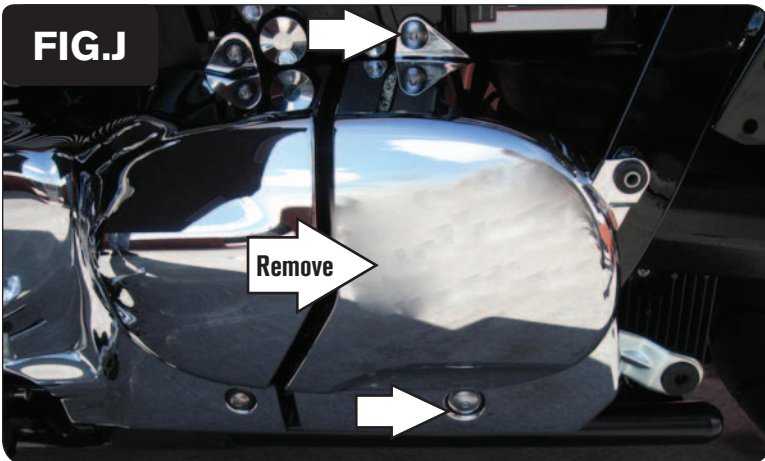
- 10 Plug the BLUE and WHITE/BLUE wires from the Ignition Module in-line of the Ignition Coil and the stock YELLOW wire (Fig. G).

FIG.H



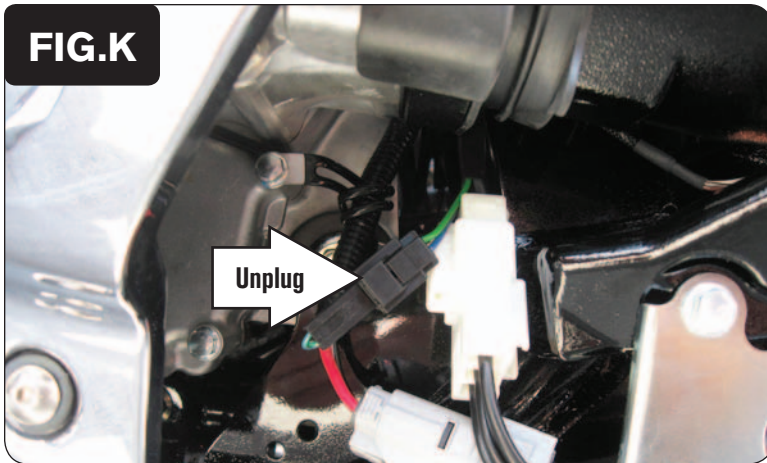
- 11 Unplug the stock wiring harness from the front cylinder coil stick.
- 12 Plug the pair of Ignition Module connectors with the ORANGE colored wires in-line of the front cylinder coil stick and the stock wiring harness (Fig. H).

FIG.J



- 13 Remove the cosmetic engine cover on the left side of the engine by removing the 2 bolts (Fig. J).

FIG.K



- 14 Unplug the stock Crank Position Sensor connectors (Fig. K).
This is a BLACK 2-pin connector pair with a GREEN wire and a BLUE wire.
- 15 Plug the connectors from the Ignition Module in-line of the stock Crank Position Sensor connectors.
- 16 Reinstall the engine cover.

FIG.L



- 17 Route the Ignition Module ground wire with the small ring terminal through the hole in the front of the battery box and attach it to the negative (-) battery post (Fig. L).

FIG.M



- 18 Secure the Ignition Module near the PCV using the supplied Velcro (Fig. M).
Clean surfaces with the supplied alcohol swab before attaching the Velcro.
- 19 Plug the supplied 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.
- 20 Reinstall the fuel tank, the bodywork, and the seat.

