IGNITION MODULE

FOR USE WITH

[POWER COMMANDER V]

2009-2016 Yamaha V-Max

Installation Instructions

PARTS LIST

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

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

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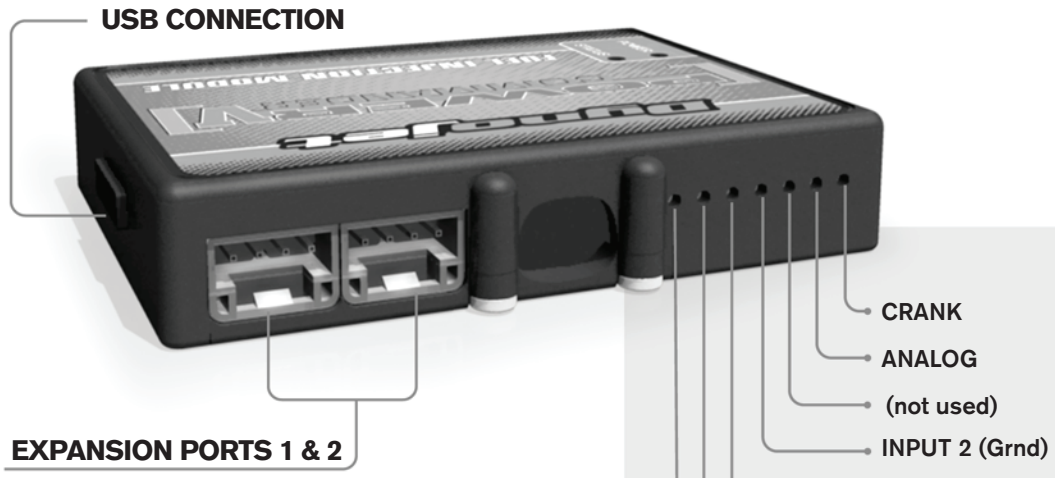
IGNITION MODULE V
INPUT ACCESSORY GUIDE

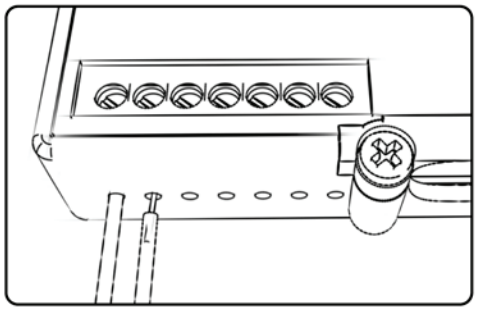


Connect to PCV, Auto-tune, etc.

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

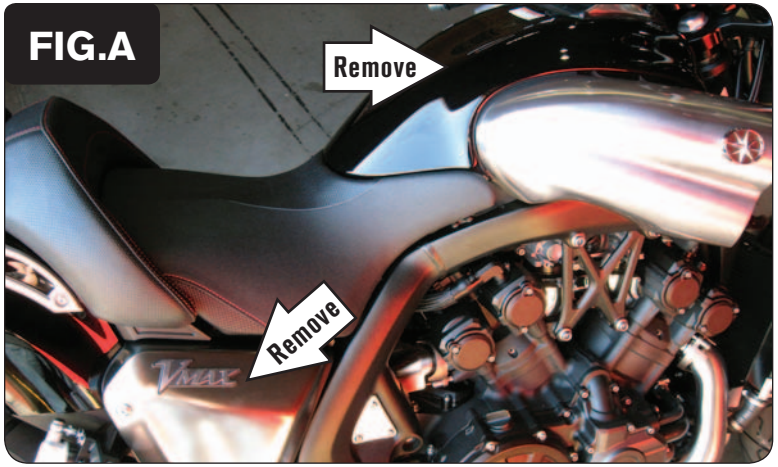
Speed - The Speed Limiter feature uses Switch Input #1 or #2. This feature gives the ability to activate a limiter based on vehicle speed. This is intended to be used as a pit lane speed limiter. You can use any OPEN / CLOSED type switch to activate this feature. The feature is configured to Switch Input #1 by default.

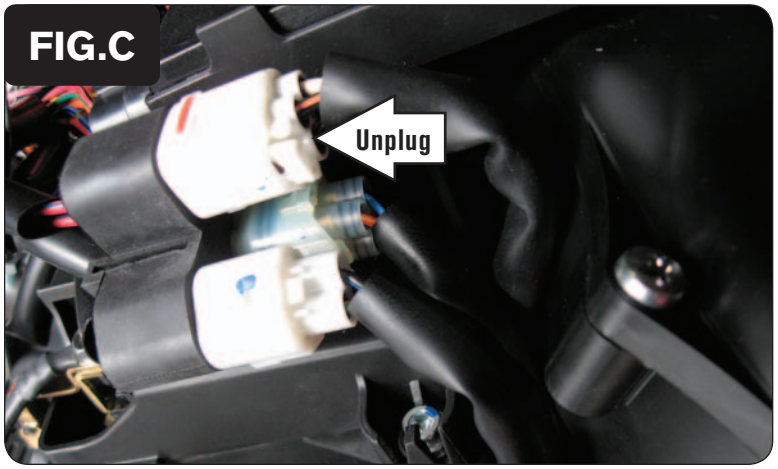
Launch - The Launch Control feature also uses Switch Input #1 or #2. This feature is intended to be used as a two stage rev-limiter. You can set a target RPM to limit the bike to when the clutch lever is activated. Once the clutch lever is released full RPM can be achieved. This requires a wire be connected 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.

Grounds - These are constant digital grounds.

Analog - Not currently used - updates to follow

Crank - Not used in this application





1 Remove the main seat.

2 Remove the cosmetic airbox cover and side panel (Fig. A).

3 Install the Ignition Module under the seat using the supplied Velcro (Fig. B).

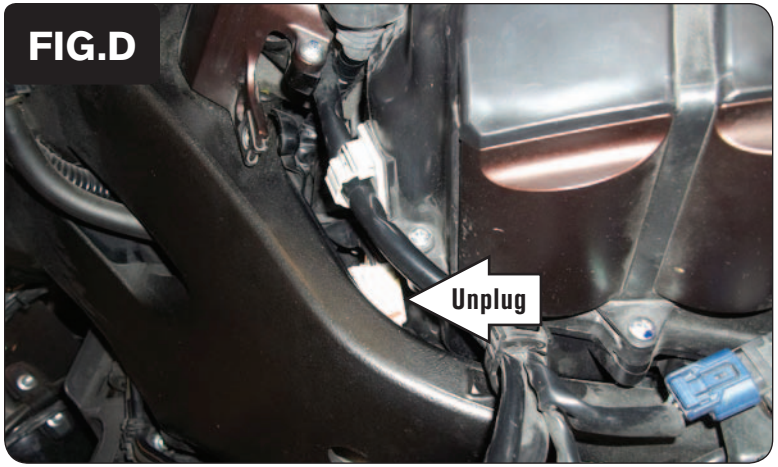
Clean surfaces with the supplied alcohol swab before attaching the Velcro.

4 Unplug the connector for the rear Ignition Coil (Fig. C).

This connector is located to the right side of the ECU. It is a WHITE 4-pin connector.

5 Plug the pair of connectors from the Ignition Module with the ORANGE & YELLOW colored wires in-line of the stock connectors.

FIG.D



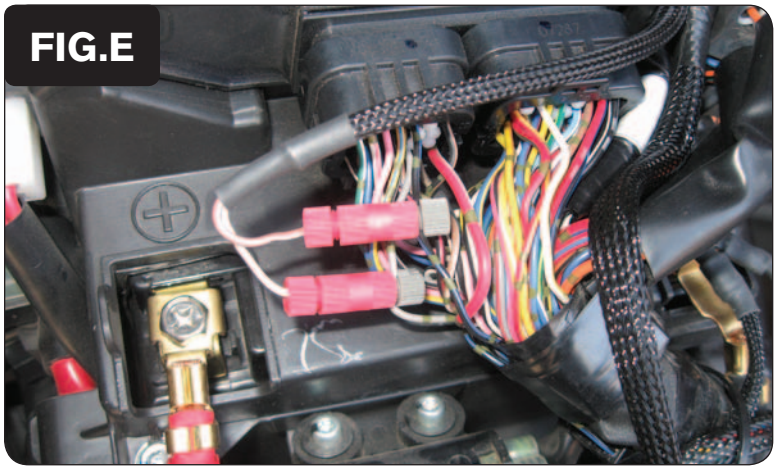
6 Route the other set of connectors from the Ignition Module to the left side of the airbox.

7 Unplug the connectors for the front Ignition Coil (Fig. D).

These connectors are located to the left side of the airbox. It is a WHITE 4-pin connector pair.

8 Plug the pair of connectors from the Ignition Module with the GREEN & BLUE colored wires in-line of these stock connectors.

FIG.E



9 Using the supplied Posi-taps connect the crank signal input wires from the Ignition Module to the smaller connector of the stock ECU (Fig. E).

The BROWN/WHITE wire of Ignition Module goes to the stock BLACK/BLUE wire (pin #22) of the smaller ECU connector.

The WHITE/BROWN wire of Ignition Module goes to the stock GREY wire (pin #10) of the smaller ECU connector.

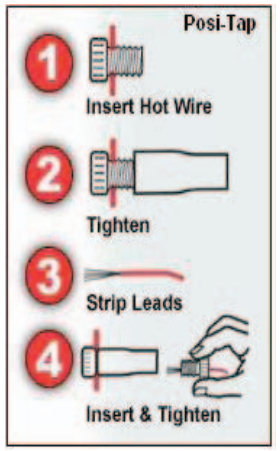


FIG.F

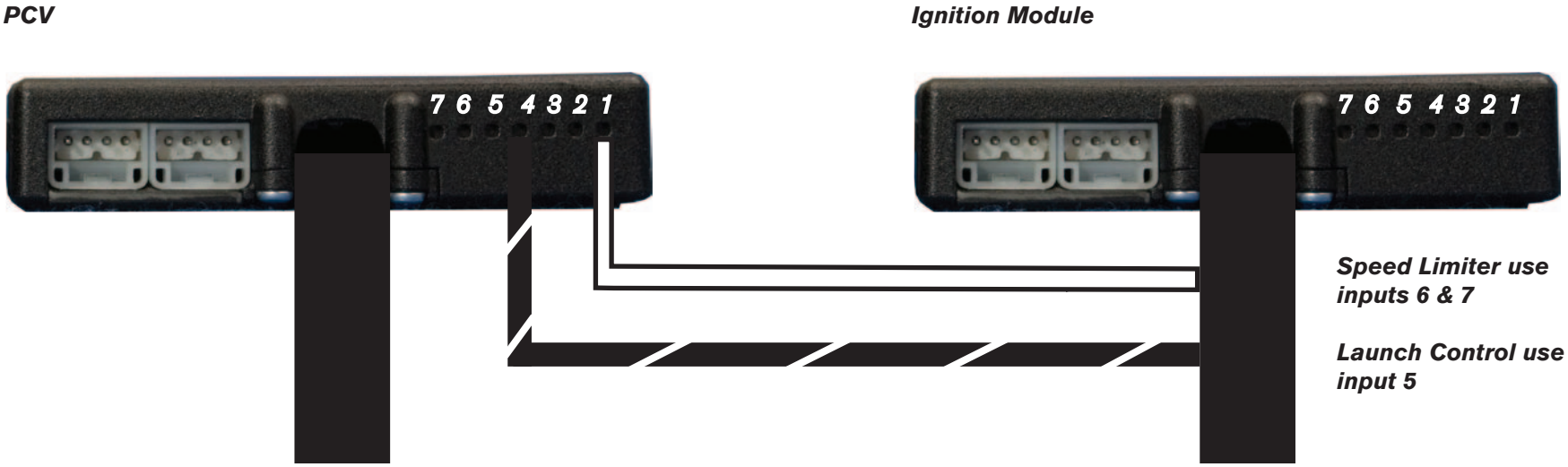
10 Attach the ground wire of the Ignition Module to the negative (-) side of the battery (Fig. F).

11 Plug one end of the CAN link cable into an expansion port of the PCV and the other end into an expansion port of the Ignition 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.

12 Reinstall the removed panels and the seat.



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.

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.