

# [POWER COMMANDER V]

## 2018 Yamaha Star Venture

### Installation Instructions



#### PARTS LIST

- 1 Power Commander
- 1 USB Cable
- 1 Installation Guide
- 2 Power Commander Decals
- 2 Dynojet Decals
- 3 Velcro strips
- 1 Alcohol swab

**THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION!**

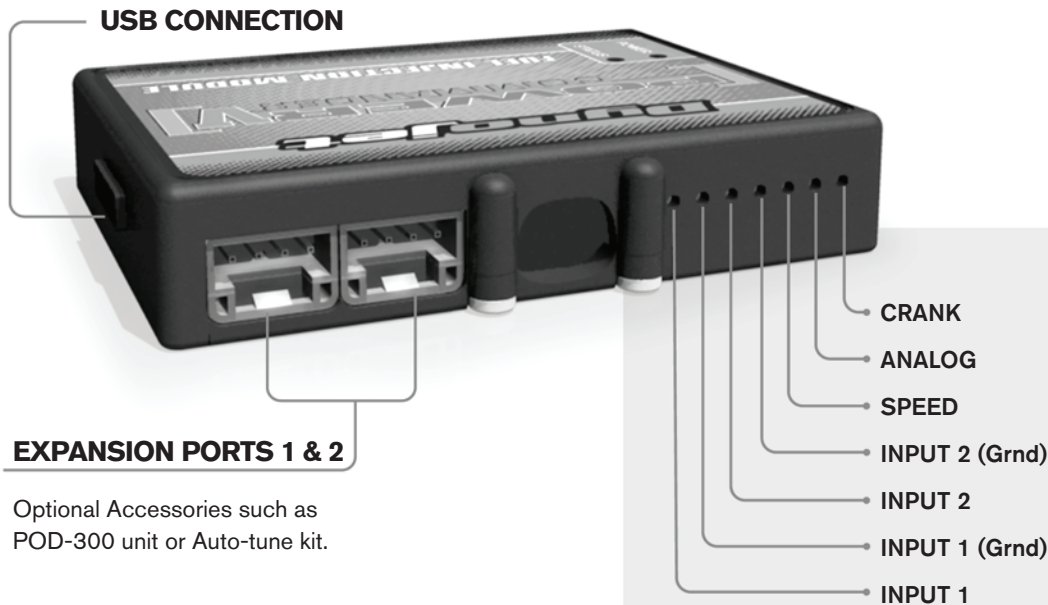
THE LATEST POWER COMMANDER SOFTWARE AND MAP FILES CAN BE DOWNLOADED FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**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)

# POWER COMMANDER 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

### Map -

(Input 1 or 2) The PCV has the ability to hold 2 different base maps. You can switch on the fly between these two base maps when you hook up a switch to the MAP inputs. You can use any open/close type switch. The polarity of the wires is not important. When using the Autotune kit one position will hold a base map and the other position will let you activate the learning mode. When the switch is "CLOSED" Autotune will be activated. (Set to Switch Input #1 by default.)

### Shifter-

(Input 1 or 2) These inputs are for use with the Dynojet quickshifter. Insert the wires from the Dynojet quickshifter into the SHIFTER inputs. The polarity of the wires is not important. (Set to Switch Input #2 by default.)

### Speed-

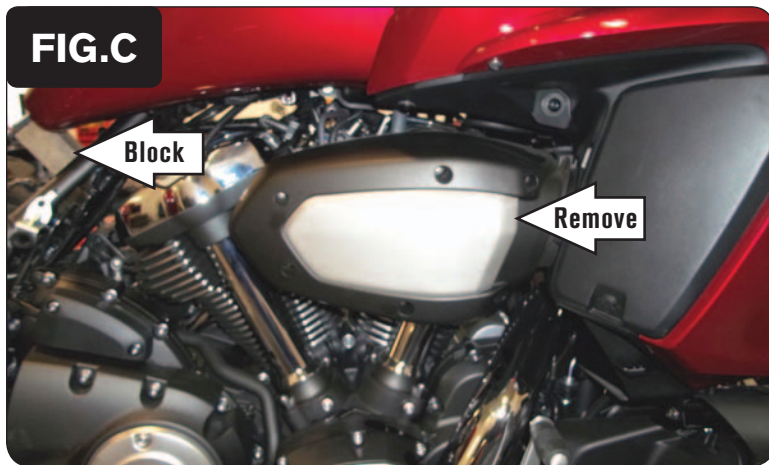
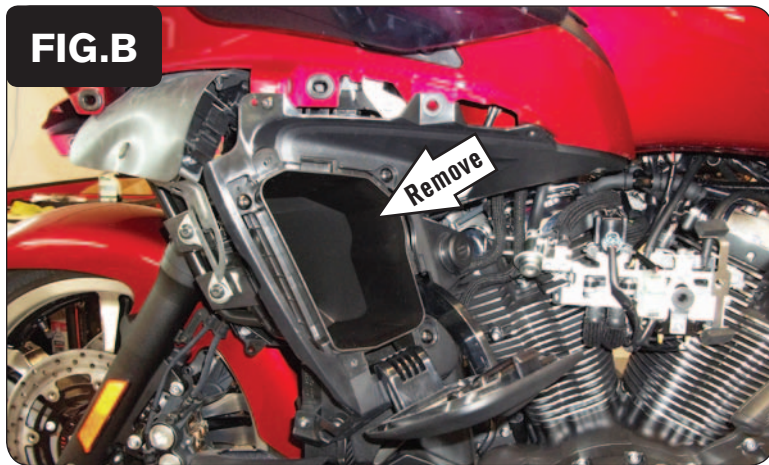
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent kill times when using a quickshifter.

### Analog-

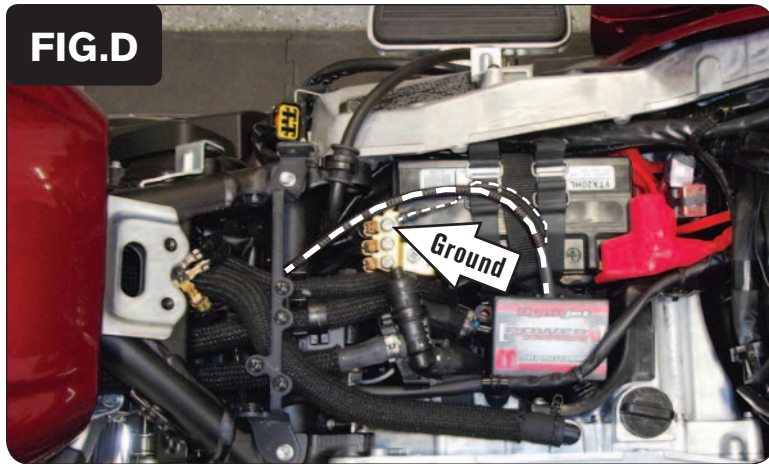
This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

### Crank-

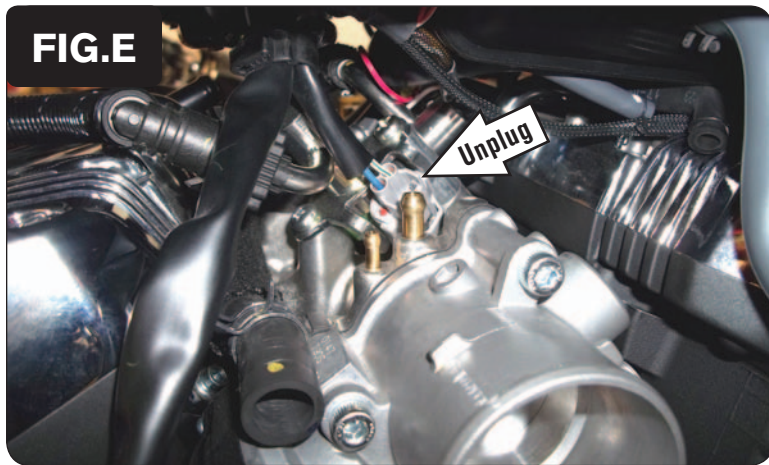
Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.



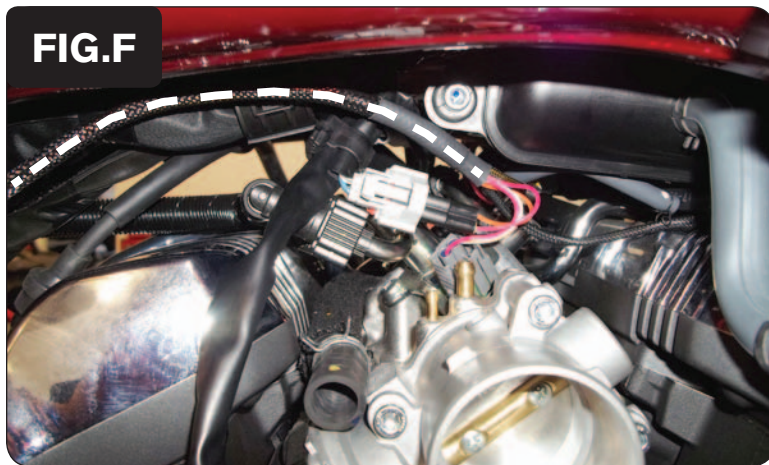
- 1 Remove the seat and side covers.
- 2 Remove the cosmetic cover from the left side of the engine (Fig. A).
- 3 Open the door for the compartment in the left side mid-fairing.
- 4 Remove the painted outer panel of the left side mid-fairing.
- 5 Remove the compartment inside of the left mid-fairing (Fig. B).
- 6 Remove the entire airbox (cover, filter, and back plate) from the right side of the engine (Fig. C).
- 7 Remove the two bolts at the rear of the fuel tank. Lift and prop the rear of the fuel tank a few inches with a block of wood (or something similar).



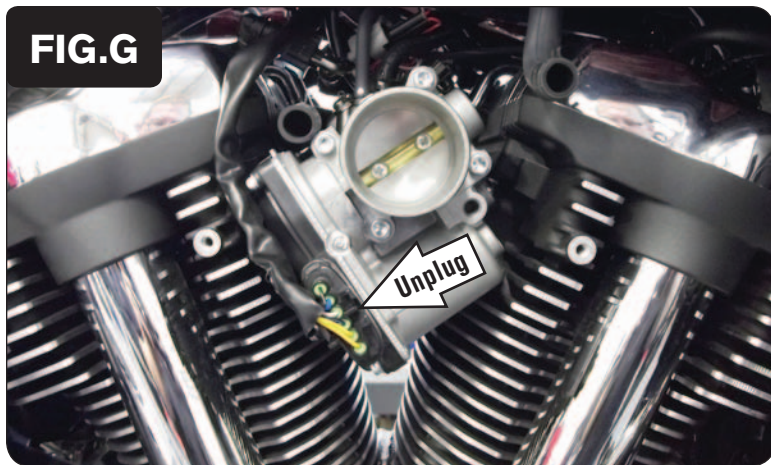
- 8 Secure the PCV module under the seat near the battery using the supplied Velcro. Clean surfaces with the supplied alcohol swab before attaching the Velcro (Fig. D).
- 9 Route the PCV wiring harness beneath the fuel tank and towards the top of the engine.
- 10 Secure the PCV ground wire with the small ring lug to the common ground plate at the negative terminal of the battery.



- 11 From the right side of the engine, locate and unplug the front cylinder fuel injector (Fig. E).



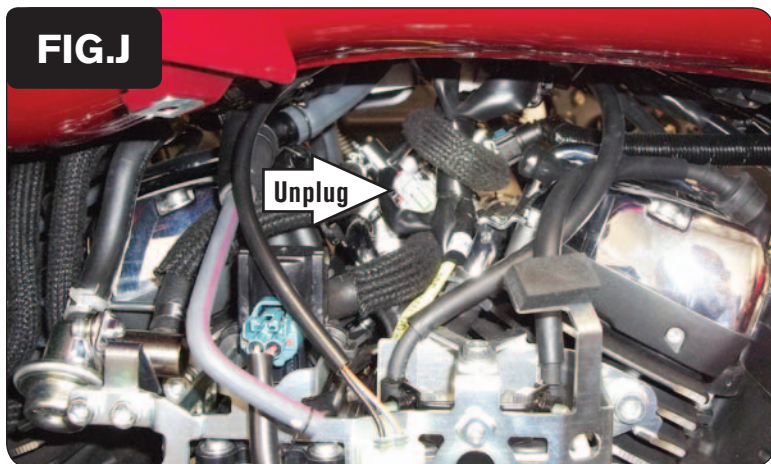
- 12 Plug the pair of PCV connectors with ORANGE colored wires in-line of the front cylinder fuel injector and the stock wiring harness (Fig. F).



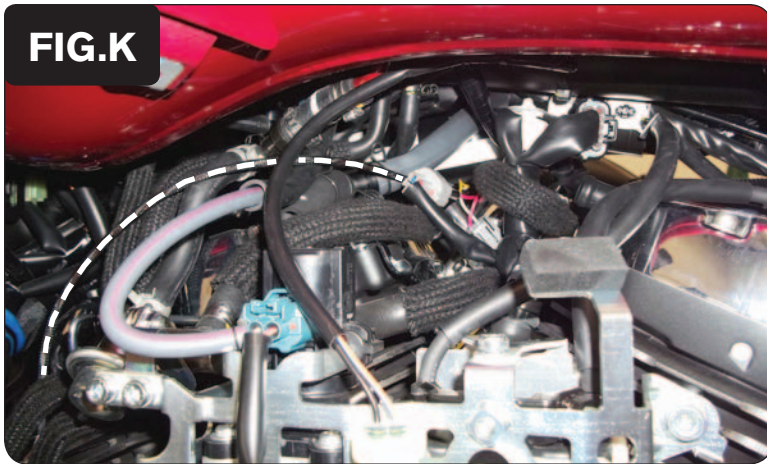
- 13 Unplug the throttle body servo connector from the throttle body (Fig. G).



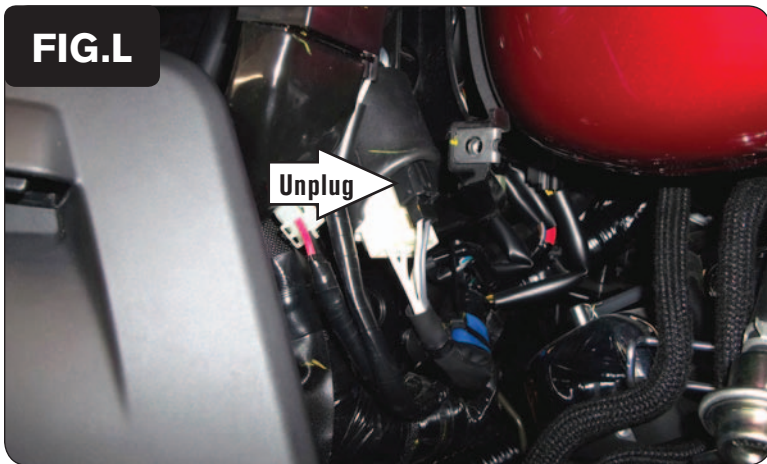
- 14 Plug the PCV wiring harness in-line of the throttle body and the stock wiring harness (Fig. H).



- 15 From the left side of the engine, locate and unplug the rear cylinder fuel injector (Fig. J).



- 16 Plug the pair of PCV connectors with YELLOW colored wires in-line of the rear cylinder fuel injector and the stock wiring harness (Fig. K).
- 17 Route the last remaining pair of connectors towards the left side of the front cylinder.



- 18 Locate and unplug the stock Crank Position Sensor connectors (Fig. L).  
*This is a BLACK 2-pin connector pair with a LIGHT GREY and a DARK GREY wire. They are inside of a black rubber boot located left of the front cylinder head.*



- 19 Plug the PCV wiring harness in-line of the stock Crank Position Sensor connectors (Fig. M).
- 20 Reinstall the removed bodywork, the airbox, side covers, and the seat.