

# [POWER COMMANDER V]

## FUEL AND IGNITION

### 2019 Yamaha R3

#### Installation Instructions



#### PARTS LIST

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

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

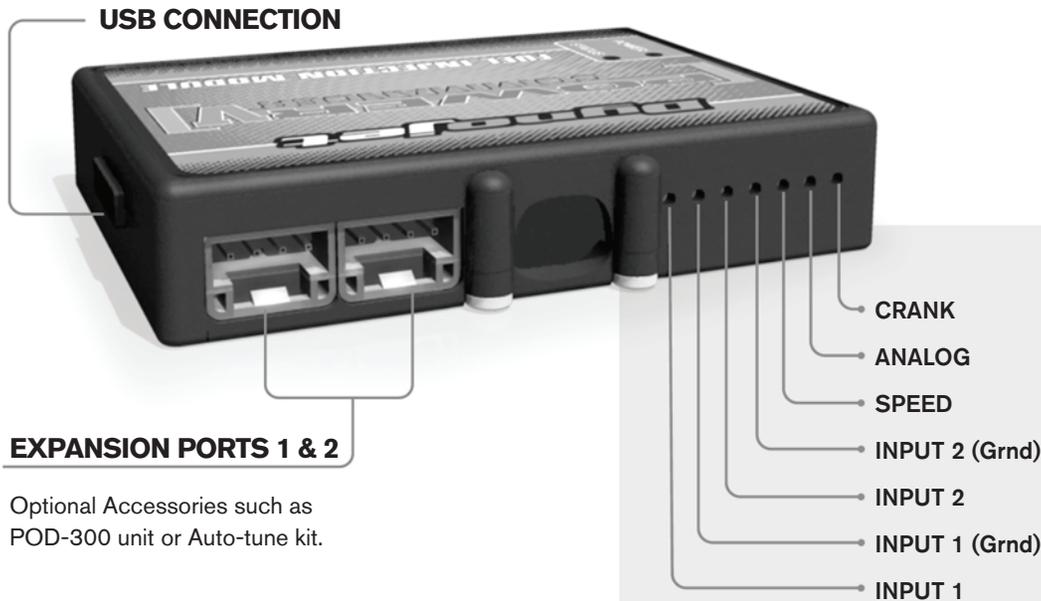
THE LATEST POWER COMMANDER SOFTWARE AND MAPS CAN BE DOWNLOADED FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**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)

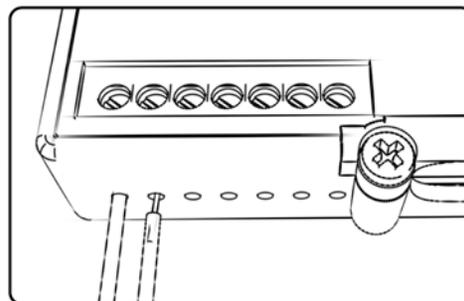
# POWER COMMANDER V INPUT ACCESSORY GUIDE



## 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-

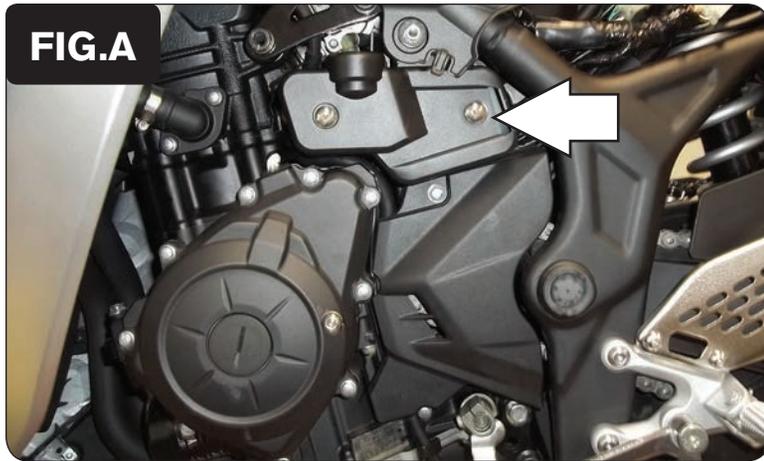
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent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

### Analog-

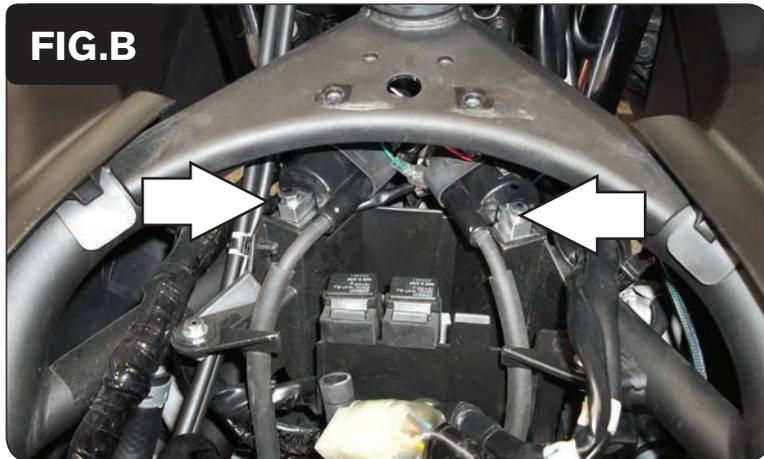
This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

### 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.



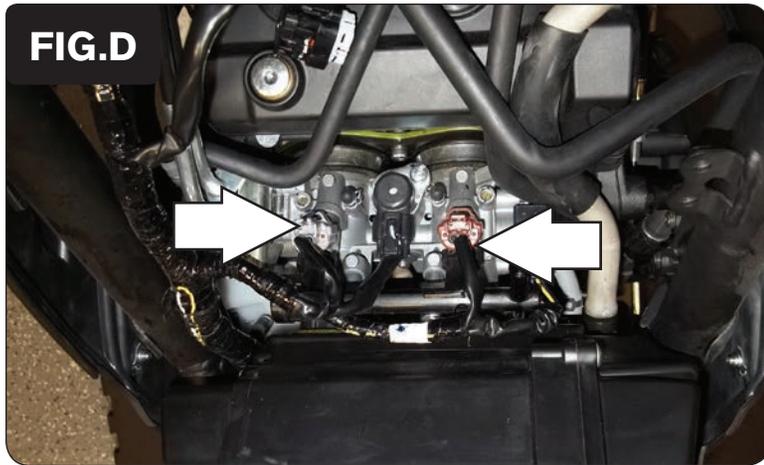
- 1 Remove the seats, the lower left side fairing, the fuel tank shell, the side panels below the fuel tank, and the fuel tank.
- 2 Loosen the coolant reserve bottle shown in Figure A.



- 3 Remove the bolts that hold the ignition coils in place (Fig. B).  
*This allows access to the wiring harness*
- 4 Lay the PCV in the tail section and route the harness down the right side of the bike and go towards the coils.



- 5 Plug the PCV in-line of the ignition coils and wiring harness (Fig. C).  
*PCV GREEN wires - left coil - ORANGE stock wire*  
*PCV RED/WHITE wires - left coil - RED/BLACK stock wire*  
*PCV BLUE wires - right coil - GREY/RED stock wire*



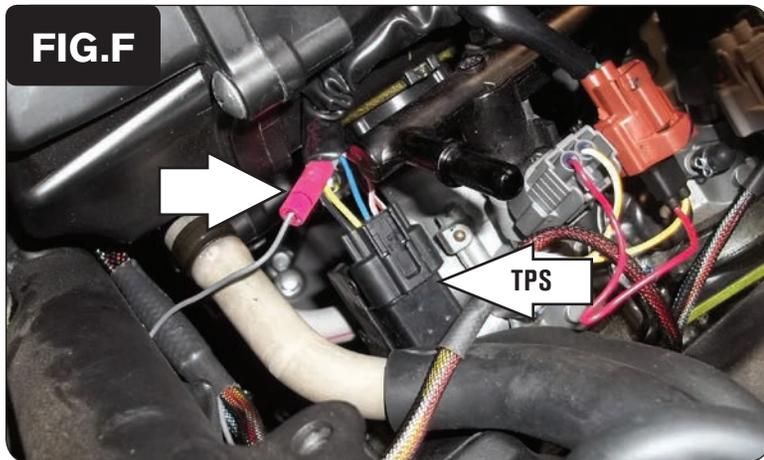
6 Unplug the stock harness from the fuel injectors (Fig. D)



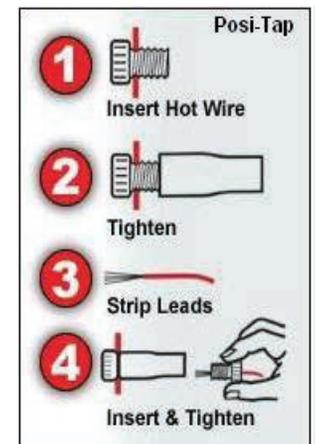
7 Plug the PCV in-line of the stock injectors and wiring harness (Fig. E)

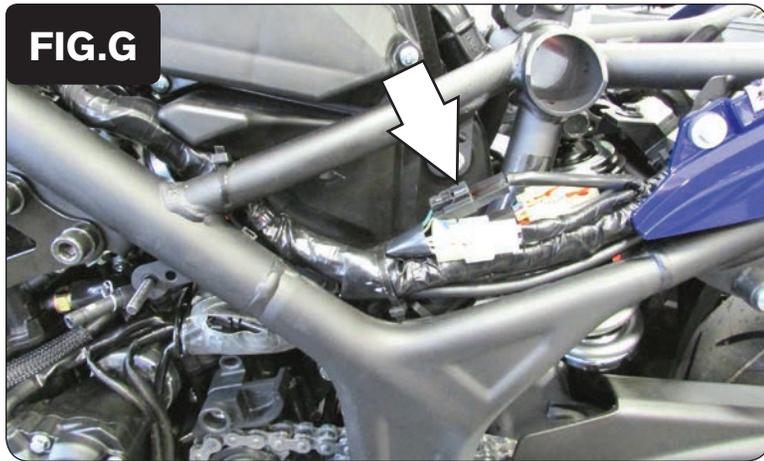
*PCV Orange wires - left, Grey stock connector*

*PCV Yellow wires - right, Brown stock connector*

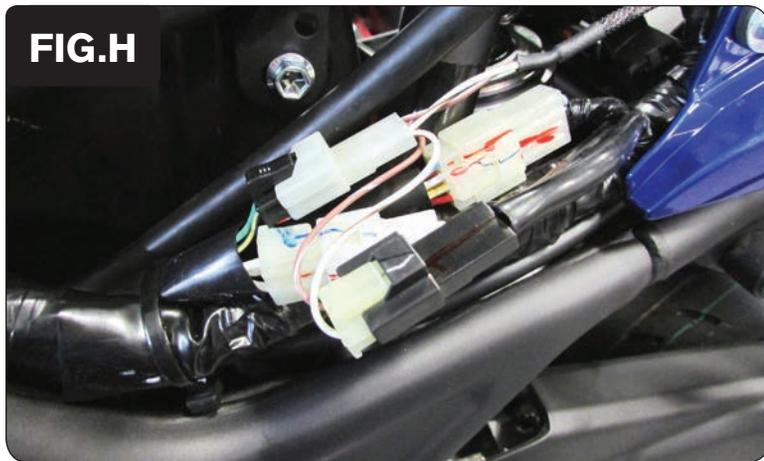


8 Using the supplied Posi-tap attach the GREY wire of the PCV to the stock YELLOW wire of the bike's Throttle Position Sensor (Fig. F).





- 9 Unplug the crank position sensor connector (Fig. G).  
*This is a BLACK connector pair on the left side of the motorcycle.*



- 10 Plug the PCV in-line of the stock CPS and wiring harness (Fig. H).



- 11 Secure the PCV in the tail section using the supplied Velcro (Fig. J).  
*Make sure to clean both surfaces with the alcohol swab before attaching*
- 12 Attach the ground wire from the PCV to the negative (-) side of the battery (Fig. J).
- 13 Reinstall the coils, the fuel tank, the coolant reserve bottle, all of the bodywork, and the seats.