

### **PARTS LIST**

- Power Commander
- 1 USB Cable

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1

- Installation Guide
- 2 Power Commander Decals
- 2 Dynojet Decals
- 2 Velcro strips
  - Alcohol swab
  - O2 Optimizer

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

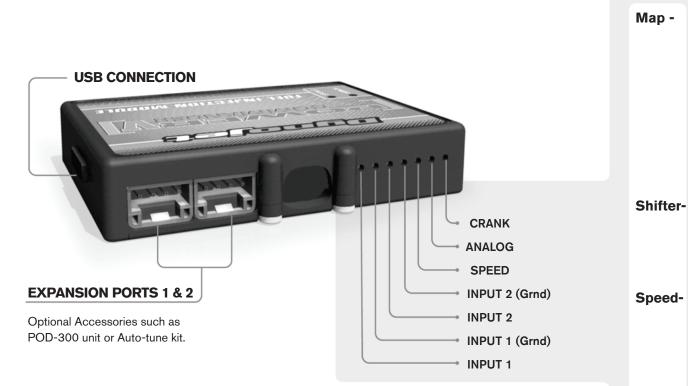
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# PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION



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## POWER COMMANDER V INPUT ACCESSORY GUIDE

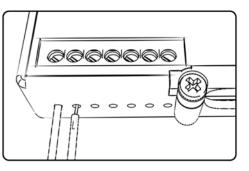


#### Wire connections:

22-065

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 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**

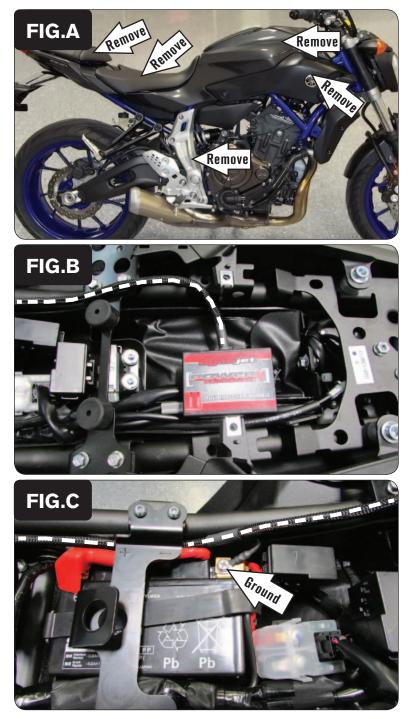
(Input 1 or 2) The PCV has the ability to hold
2 different base maps. You can switch on the
fly between these two base maps when you
hook up a switch to the MAP inputs. You can
use any open/close type switch. The polarity
of the wires is not important. When using the
Autotune kit one position will hold 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.)

er- (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.)

- 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.



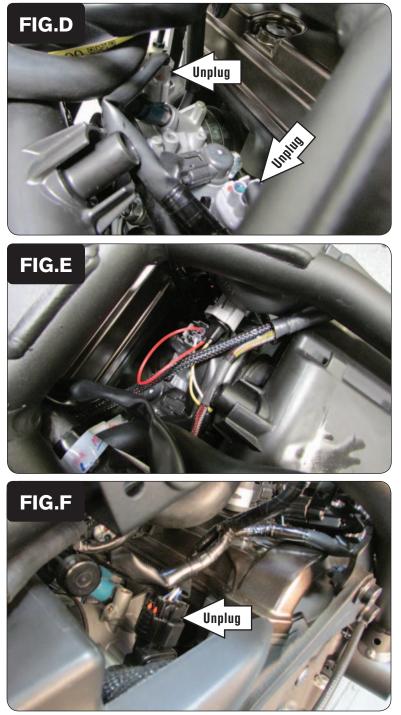
- 1 Remove both seats, both side panels, the bodywork surrounding the fuel tank, the panel between the seats, and the plastic panel above the right footpeg (Fig. A).
- 2 Remove the fuel tank.

3 Store the PCV module in the tail section beneath the passenger seat (tool kit area). The supplied Velcro strips can be used to secure the module.

Clean both surfaces with the supplied alcohol swab prior to applying the Velcro adhesive.

4 Route the PCV wiring harness forward along the right side frame rail (Fig. B).

- 5 Secure the PCV ground wire with the small ring lug to the negative (-) terminal of the bike's battery (Fig. C).
- 6 Continue routing the wiring harness forward and towards the throttle bodies.



7 Unplug the stock wiring harness from both Fuel Injectors (Fig. D).

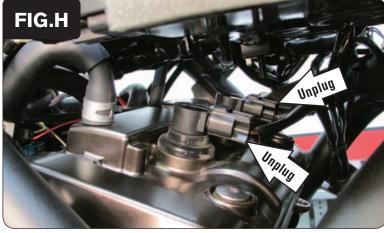
8 Plug the PCV wiring harness in-line of the Fuel Injectors and the stock wiring harness (Fig. E).

The pair of PCV leads with ORANGE colored wires go to the left cylinder injector (#1); and the pair with YELLOW colored wires go to right cylinder (#2).

Only the right cylinder injector connections can be seen in Figure E.

9 Unplug the stock wiring harness from the Throttle Position Sensor located on the right side of the throttle bodies (Fig. F).







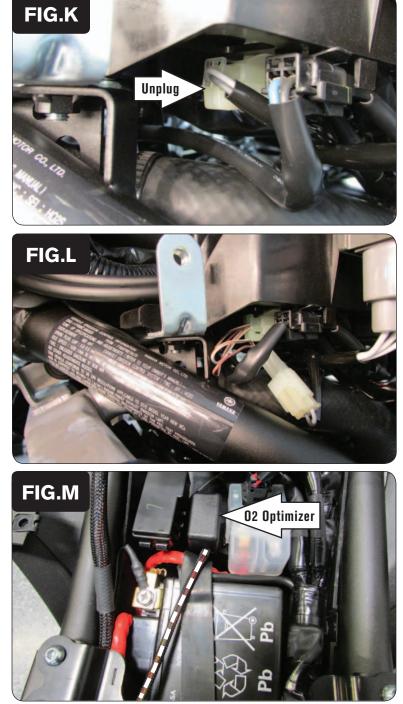
- 10 Plug the PCV wiring harness in-line of the TPS and the stock wiring harness (Fig. G).
- 11 Route the rest of the PCV wiring harness forward towards the top of the engine where the Ignition Coils are located.

12 Unplug the stock wiring harness from both of the Ignition Coils (Fig. H).

13 Plug the PCV wiring harness in-line of the Ignition Coils and the stock wiring harness (Fig. J).

The pair of PCV leads with GREEN colored wires go to the left cylinder coil stick (#1); and the pair with BLUE colored wires go to right cylinder coil stick (#2).

14 Route the last pair of connections on the PCV wiring harness out to the left side of the bike below the voltage regulator/rectifier.



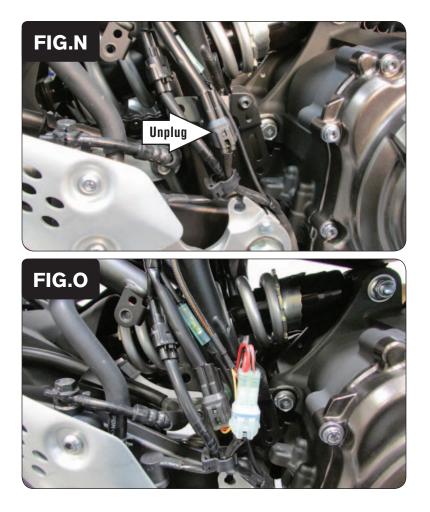
15 Just below the regulator/rectifier, locate and unplug the stock connectors for the bike's Crank Position Sensor (Fig. K).

This is a pair of CLEAR (opaque) 2-pin connectors with a WHITE and a GREY wire.

16 Plug the PCV wiring harness in-line of the stock CPS connectors (Fig. L).

- 17 Store the O2 Optimizer module in the small opening just rear of the bike's battery (Fig. M).
- 18 Route the O2 Optimizer wiring harness along the frame, downward, and towards the right footpeg.

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19 Just above the right footpeg, locate and unplug the stock connector for the bike's O2 sensor (Fig. N).

This is a BLACK 4-pin connector.

- 20 Plug the O2 Optimizer wiring harness in-line of the stock O2 sensor connectors (Fig. O).
- 21 Reinstall the fuel tank, bodywork, and seats.

	0	2	5	10	15	20	40	60	80	100	
500	0	0	0	0	0	0	0	0	0	0	
750	0	0	0	0	0	0	0	0	0	0	
1000	0	0	0	0	0	0	0	0	0	0	
1250	0	0	0	0	0	0	0	0	0	0	
1500	0	0	0	0	0	0	0	0	0	0	
1750	0	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	0	
2250	0	0	0	0	0	0	0	0	0	0	
2500	0	0	0	0	0	0	0	0	0	0	
2750	0	0	0	0	0	0	0	0	0	0	
3000	0	0	0	0	0	0	0	0	0	0	
3250	0	0	0	0	0	0	0	0	0	0	
3500	0	0	0	0	0	0	0	0	0	0	
3750	0	0	0	0	0	0	0	0	0	0	
4000	0	0	0	0	0	0	0	0	0	0	
4250	0	0	0	0	0	0	0	0	0	0	
4500	0	0	0	0	0	0	0	0	0	0	
4750	0	0	0	0	0	0	0	0	0	0	
5000	0	0	0	0	0	0	0	0	0	0	
5250	0	0	0	0	0	0	0	0	0	0	
5500	0	0	0	0	0	0	0	0	0	0	
5750	0	0	0	0	0	0	0	0	0	0	
6000	0	0	0	0	0	0	0	0	0	0	
6250	0	0	0	0	0	0	0	0	0	0	
6500	0	0	0	0	0	0	0	0	0	0	
6750	0	0	0	0	0	0	0	0	0	0	
7000	0	0	0	0	0	0	0	0	0	0	
7250	0	0	0	0	0	0	0	0	0	0	
7500	0	0	0	0	0	0	0	0	0	0	
7750	0	0	0	0	0	0	0	0	0	0	
8000	0	0	0	0	0	0	0	0	0	0	
8250	0	0	0	0	0	0	0	0	0	0	
8500	0	0	0	0	0	0	0	0			
8750	0	0	0	0	0	0	0	0	FIG	i.P_	
9000	0	0	0	0	0	0	0	0			

#### **Tuning Notes:**

The O2 Optimizer for this model controls the stock closed loop area. This area is represented by the highlighted cells shown in Figure P. The O2 Optimizer is designed to achieve a target AFR of 14.2:1. To use the O2 Optimizer you must retain your stock O2 sensor (even if using Auto-tune).

It is not necessary to change the values in the highlighted area of your fuel table. A blanket fuel change of 8 across this entire closed loop area should suffice. If using the Auto-tune system, do NOT input values in this area of your Target AFR table.

The light on the O2 Optimizer will blink while the sensor is being heated up. The unit is not functioning until the light is lit up solid.