

[POWER COMMANDER V]

**2002-2009 Yamaha
Road Star Warrior**

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

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

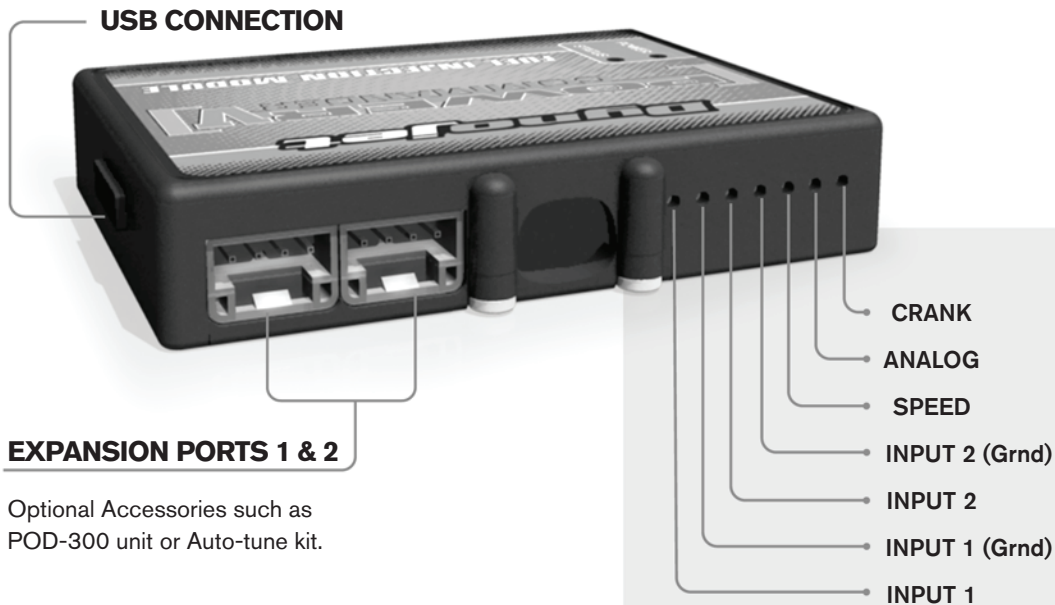
THE LATEST POWER COMMANDER
SOFTWARE AND MAP FILES CAN BE
DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 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-

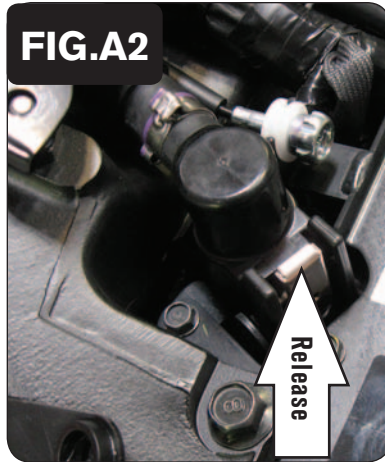
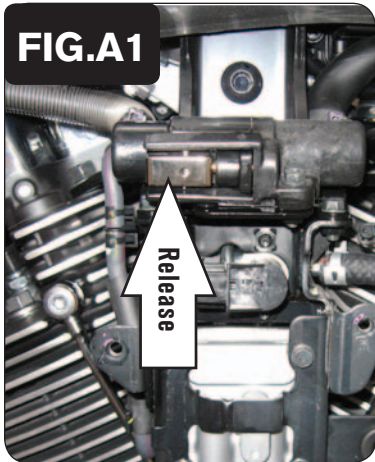
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent 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. Remove the two nuts at the rear of the fuel tank.
- 2 Remove the left hand cosmetic cover (chrome triangle cover that looks like an airbox).
- 3 To remove the fuel tank release the two drybreaks shown in Fig. A1 and A2.

NOTE: Do not cut the metal bands around the fuel lines to remove.

- 4 Remove the fuel tank.

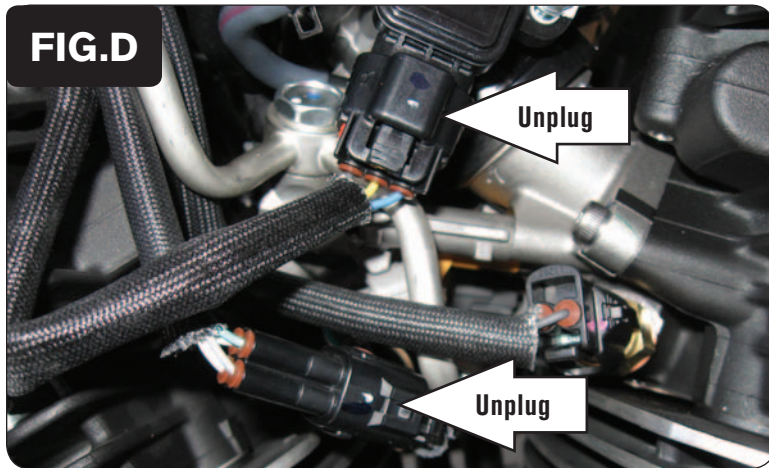
- 5 Remove the airbox.

To remove, unscrew the two bolts shown in Fig. B. Also loosen the clamp screw at the intake snorkel. To access this screw go in from the top of the bike on the inside of the frame.

- 6 Route the wires from the PCV from the under the frame bracket towards the airbox (Fig. C)

Route the wires along the frame using the stock wire wraps.





- 7 Unplug the BLACK 4-pin connector for the fuel injectors (Fig. D).
- 8 Unplug the BLACK 3-pin connector for the Throttle Position Sensor.



- 9 Plug the connectors from the PCV in-line of the stock wiring harness (Fig. E)



- 10 Locate the stock ground. Follow the negative battery cable to the frame. Remove the allen bolt that secures the ground cable to the frame. Reinstall the allen bolt thru the stock ground cable, then thru the ground wire from the PCV into the frame (Fig. F).

FIG.G



- 11 Using the supplied Velcro attach the PCV to the top of the ECU (Fig. G).
Use the alcohol swab to clean both surfaces before attaching.
- 12 Reinstall the cover, fuel tank and seats.

Optional inputs:

Speed input - WHITE/YELLOW wire of WHITE 3-pin plug. Located under ECU (WHITE/YELLOW - BLUE - BLUE/BLACK)

12v source for Auto-tune - BLUE wire of 6-pin connector for tail light. Located under the ECU