

[POWER COMMANDER V]

2009-2014 BMW K1300 S/R

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!**

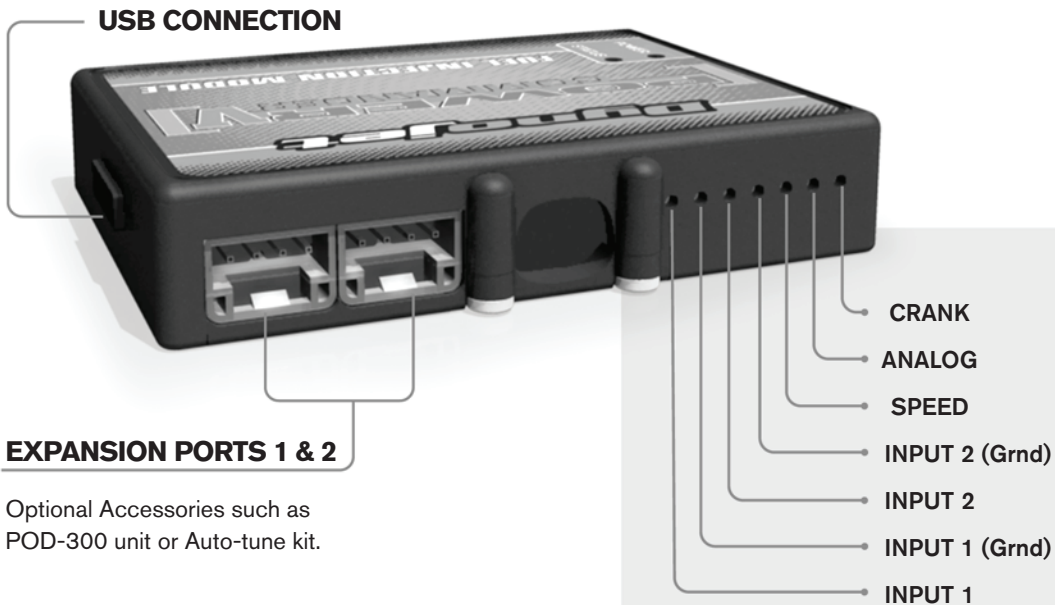
THE LATEST POWER COMMANDER
SOFTWARE AND MAP FILES CAN BE
DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

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.

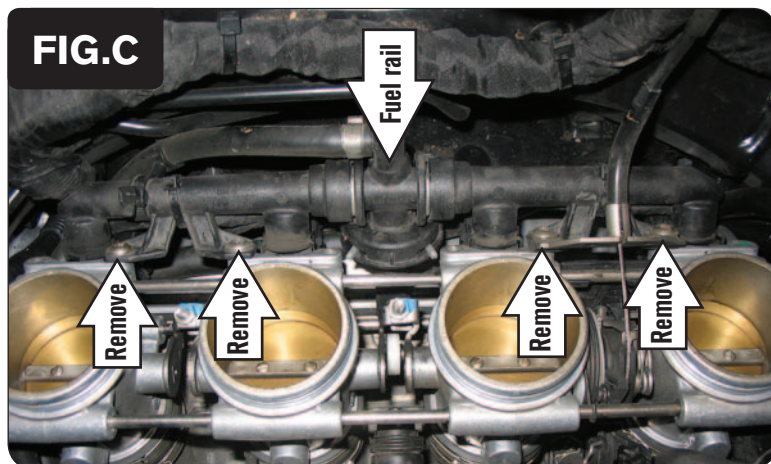
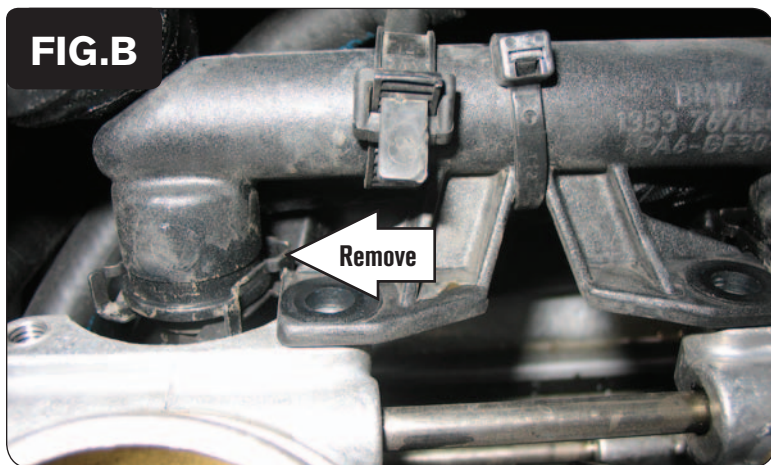
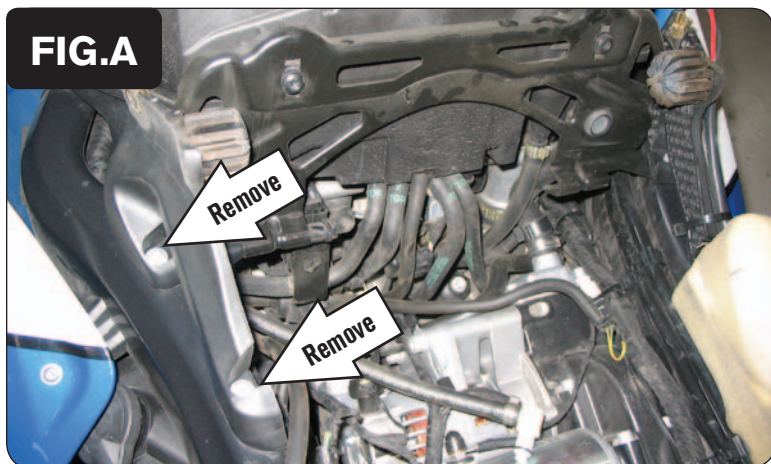
Analog-

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.

DO NOT TURN ON THE IGNITION WHILE ANY CONNECTIONS ARE UNPLUGGED.



- 1 Remove the following:
 - Seat
 - Upper side fairings
 - Fuel tank
 - Intake runners with filters
 - Battery
 - Air box (remove bolts shown in Figure A)

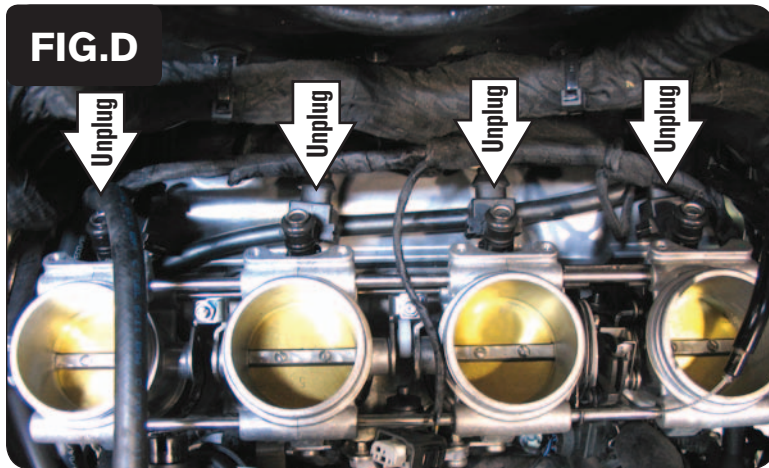
There are two ways to access the fuel injectors. Either remove the entire throttle bodies from the intake manifolds (recommended to replace hose clamps) or follow these instructions.

- 2 Remove the clip from each injector to the fuel rail (Fig. B).

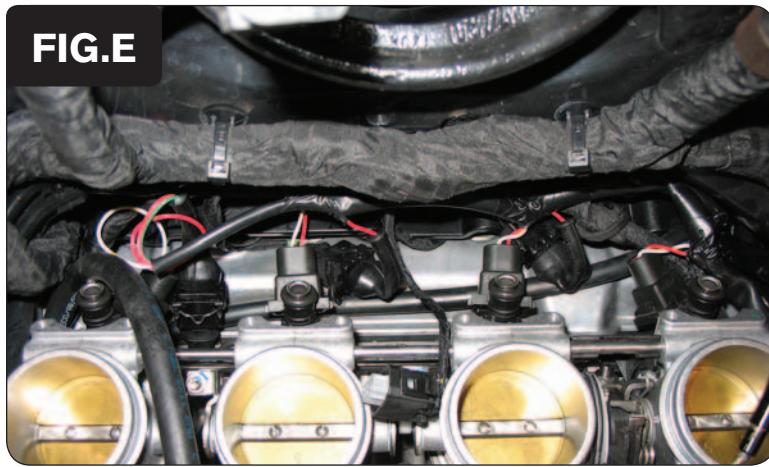
- 3 Remove the fuel rail to access the fuel injectors.

To remove the fuel rail remove the 4 bolts holding it to the throttle bodies.

Leave the fuel injectors in the throttle bodies. Do NOT lose the O-rings for the fuel injectors.



- 4 Unplug the stock wiring harness from each fuel injector (Fig. D).



- 5 Lay the PCV in the tail section and route the harness down the right hand side of the bike towards the throttle bodies.
- 6 Plug the PCV harness in-line of the stock wiring harness and each fuel injector.

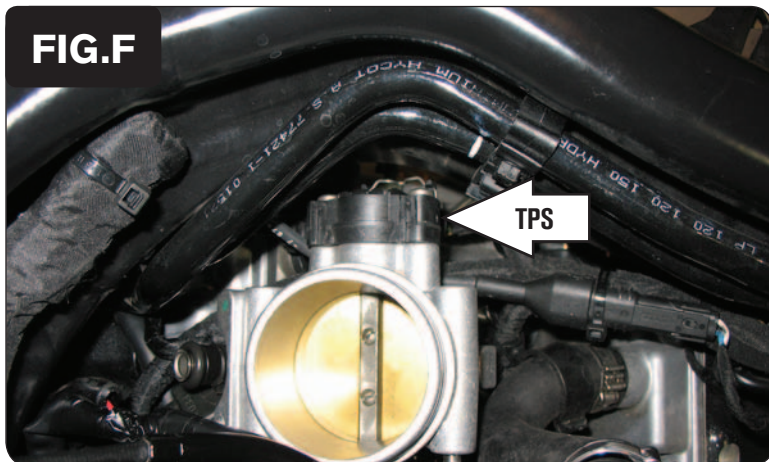
PCV harness:

Orange - cylinder #1 (left)

Yellow - cylinder #2

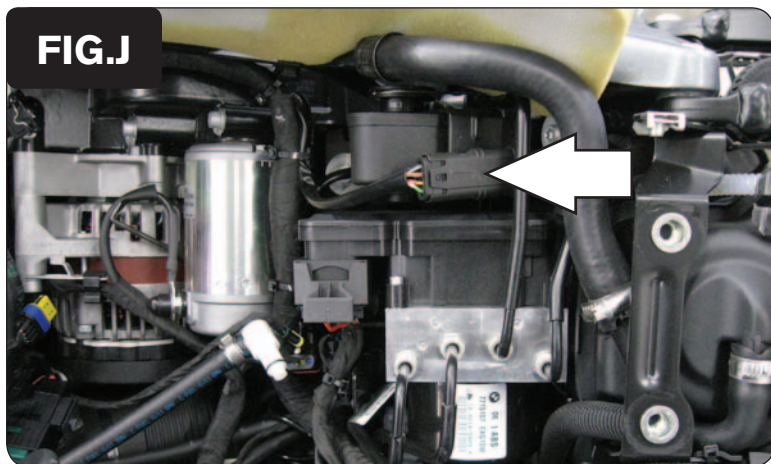
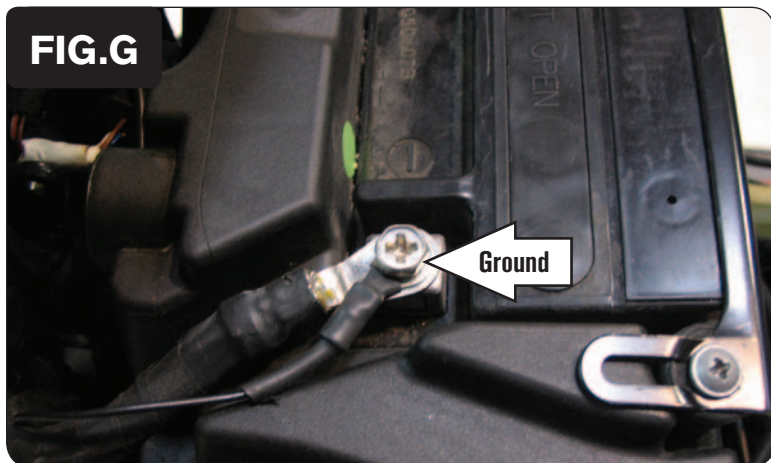
Green - cylinder #3

Blue - cylinder #4 (right)



- 6 Locate the stock Throttle Position Sensor connector (Fig. F). This connection is on the right side of the throttle bodies.
- 7 Unplug the stock TPS connector and plug the PCV harness in-line.

Removing the right hand fairing makes this step easier.



- 8 Reinstall the fuel rail.
- 9 Reinstall the airbox.
Make sure the PCV ground wire is pulled towards the outside of the frame.
- 10 Route the PCV ground wire along the stock ground wire.
- 11 Attach the ground wire of the PCV to the negative side of the battery (Fig. G).

- 12 Install the PCV in the tail section using the supplied Velcro.
Make sure to clean both surfaces with the alcohol swab before attaching.
The PCV can also be mounted under the BLACK cover near the fuel tank cap.

- 13 Unplug the stock O2 sensor from the main wiring harness (Fig. J).
This connection is located under the fuel tank near the ABS control unit.
The stock O2 sensor will no longer be connected to anything. It can be removed from the exhaust if desired and if you have a way to plug the hole in the exhaust.
- 14 Reinstall the fuel tank and bodywork.
- 15 Verify that you have all electronics securely connected before trying to start the motorcycle.