

POWER COMMANDER V

2020 Kawasaki Ninja 650R Installation Guide

**POWER
COMMANDER
V**

PARTS LIST



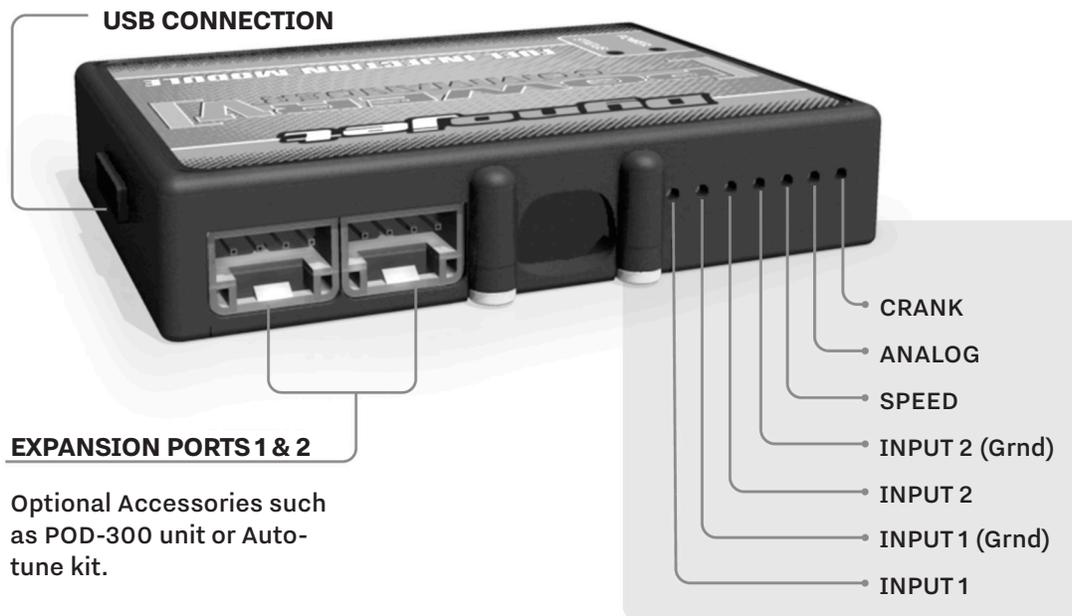
- | | | | |
|---|--------------------|---|------------------------|
| 1 | POWER COMMANDER V | 2 | DYNOJET DECALS |
| 1 | INSTALLATION GUIDE | 2 | POWER COMMANDER DECALS |
| 1 | USB CABLE | 1 | ALCOHOL SWAB |
| 2 | VELCRO STRIPS | | |

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION



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POWER COMMANDER V INPUT ACCESSORY GUIDE



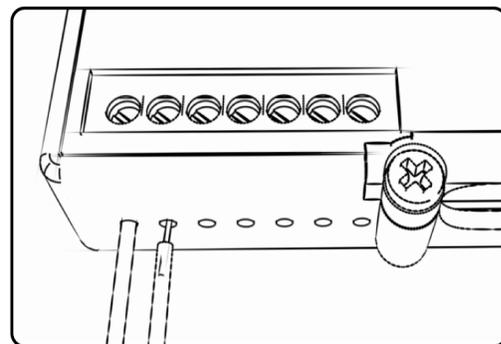
ACCESSORY INPUTS:

- 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.
- 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.
- 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.

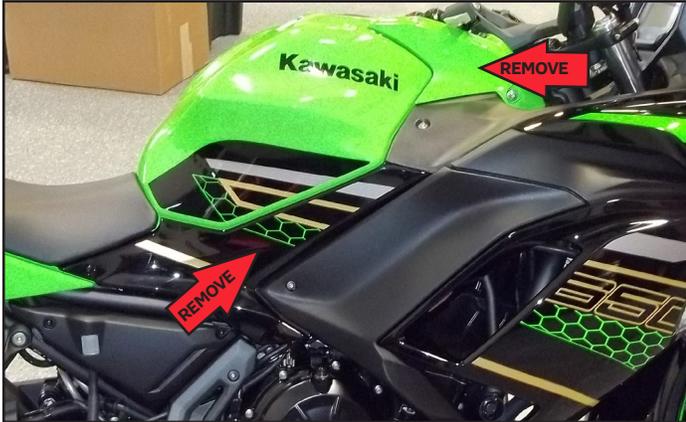
WIRE CONNECTIONS:

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.



INSTALLING THE POWER COMMANDER V



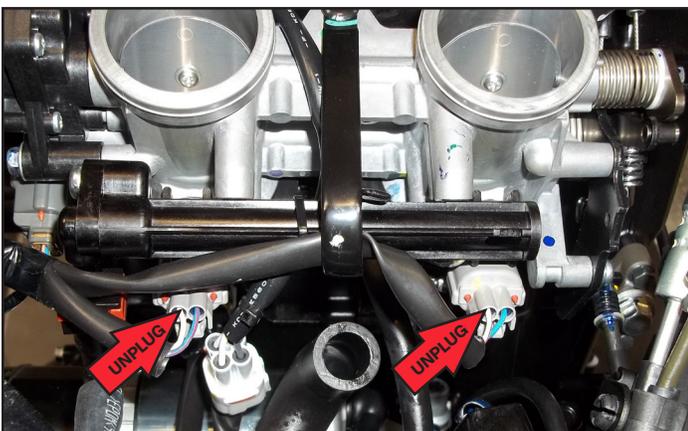
REMOVE BODYWORK

- 1 Remove the seats. Remove the panels around the fuel tank and remove the fuel tank.
- 2 Remove the air box.



INSTALL PCV

- 3 Lay the PCV in the tail section and route the wiring harness down the left side of the frame, towards the throttle bodies.



UNPLUG INJECTORS

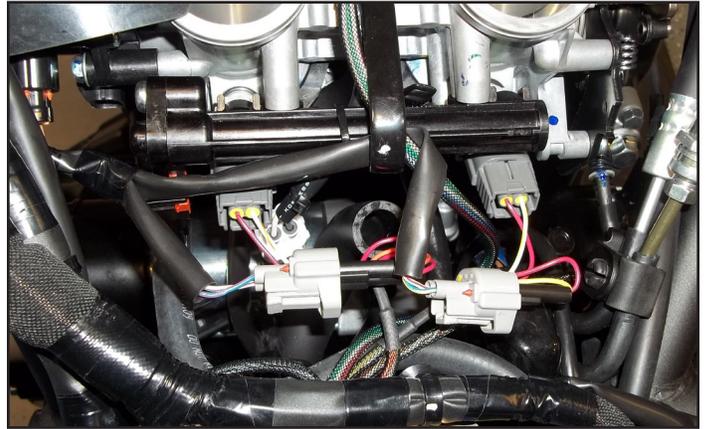
- 4 Unplug the stock wiring harness from the injectors

INSTALLING THE POWER COMMANDER V

- 5 Plug the PCV wiring harness in-line of the stock injectors and stock wiring harness.

ORANGE colored wires go to cylinder #1 - LEFT

YELLOW colored wires go to cylinder #2 - RIGHT



CONNECT INJECTORS

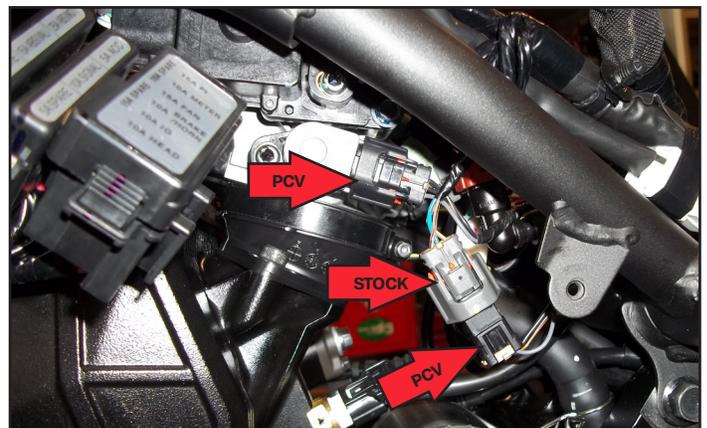
- 6 Locate the Throttle Position Sensor on the left side of the throttle bodies. Unplug the TPS.

This is a GREY connector with 3 wires



UNPLUG TPS CONNECTOR

- 7 Plug the PCV harness in-line of the stock TPS and wiring harness.
- 8 Continue routing the PCV harness in between the 2 throttle bodies and go towards the Ignition coils



CONNECT TPS

INSTALLING THE POWER COMMANDER V



UNPLUG IGNITION COILS

- 9 Unplug the stock wiring harness from each ignition coil.

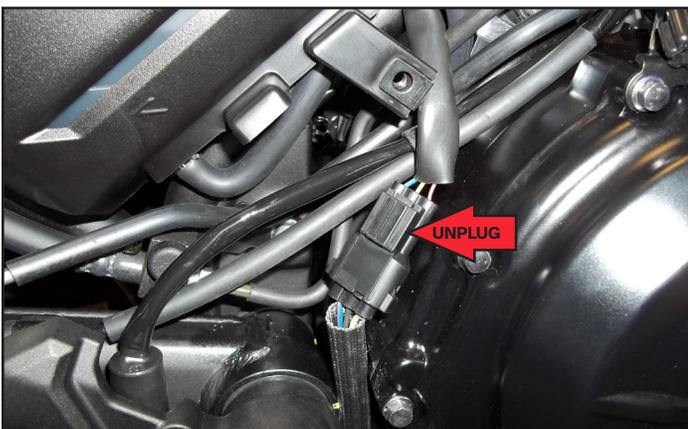


CONNECT IGNITION COILS

- 10 Connect the PCV wiring harness in-line of the stock ignition coils and wiring harness.

GREEN colored wires go to cylinder #1 - LEFT

BLUE colored wires go to cylinder #2 - RIGHT



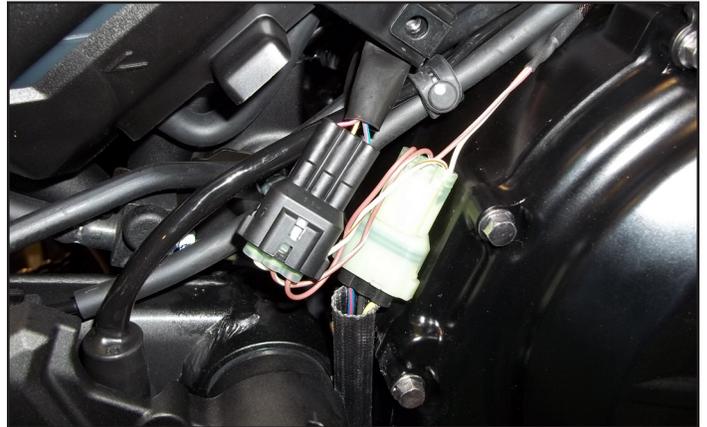
UNPLUG THE CPS

- 11 Locate the Crank Position Sensor connector. Unplug the CPS connector.

This is a BLACK 3 pin connector on the RH side of the motorcycle near the clutch cover.

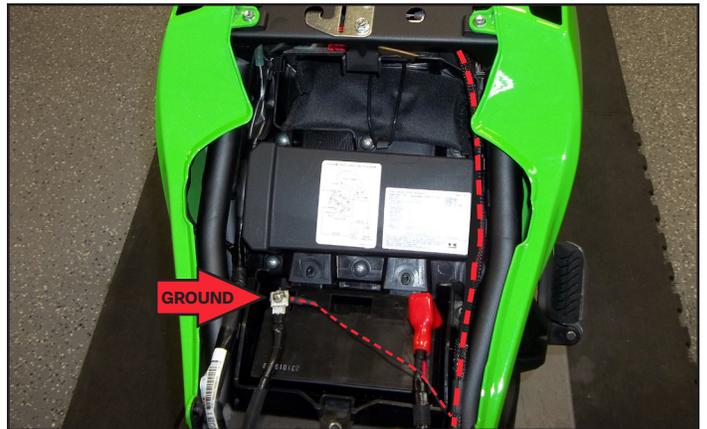
INSTALLING THE POWER COMMANDER V

- 12 Connect the PCV harness in-line of the CPS and stock wiring harness.



PCV CONNECTED TO CPS

- 13 Attach the PCV ground wire to the negative side of the battery.
- 14 Reinstall airbox and bodywork.



GROUND WIRE



PUSH THE LIMIT

2191 MENDENHALL DRIVE, NORTH LAS VEGAS, NV 89081 - 800-992-4993 - DYNOJET.COM

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