

POWER COMMANDER V

2021 Harley Davidson Touring Model
Installation Guide

PARTS LIST



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

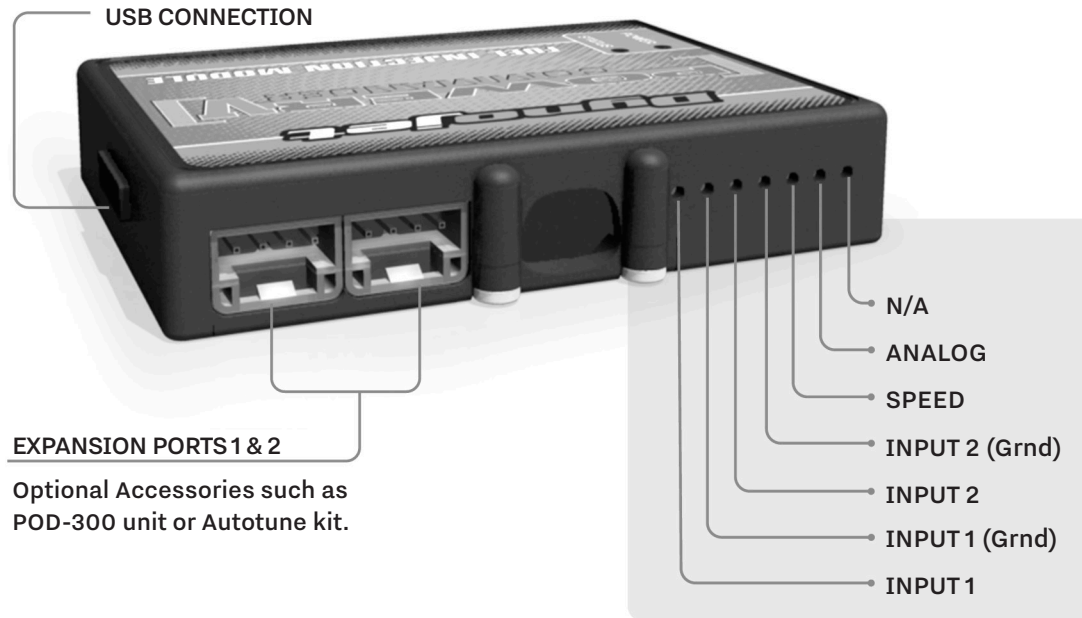
**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION.
THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION.**



115-049.01



INPUT ACCESSORY GUIDE



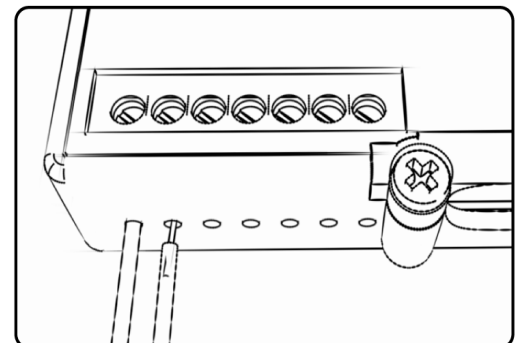
ACCESSORY INPUTS

- 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. Set to Switch Input 1 by default.
- Shifter** (Input 1 or 2) Used for clutch-less full throttle upshifts. Insert the wires from the Dynojet quick shifter into either Input 1 or Input 2. The polarity of the wires is not important. Set to Input 2 by default.
- Speed** Not needed on Harley applications as the speed signal wire is built into the main wiring harness of the PCV.
- 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 Power Core software.
- Launch** You can connect a wire to either Input 1 or Input 2 and then the other end to a switch. This switch when engaged (continuity) will only allow the RPM to be raised to a certain limit (set in the software). When released, you will have full RPM.

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.

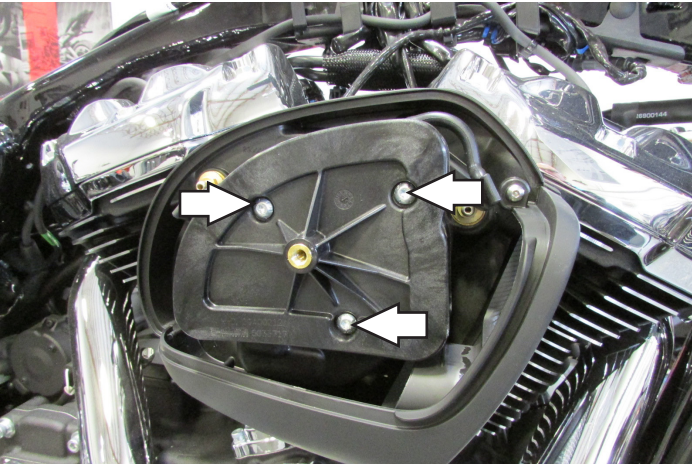
NOTE: If you tin the wires with solder it will make inserting them easier.



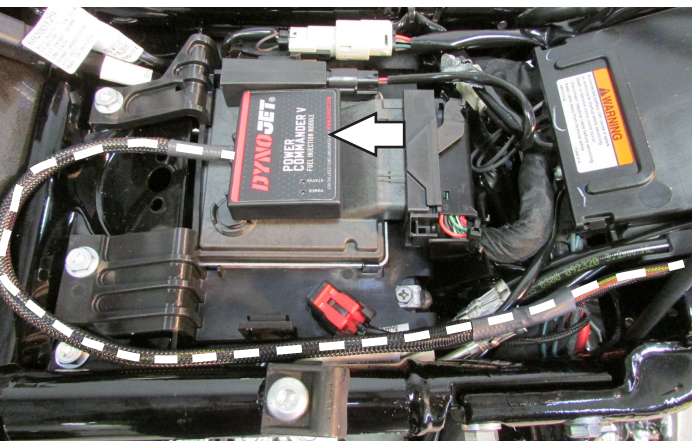
INSTALLING THE POWER COMMANDER V



- 1 Remove the passenger and driver seats.
- 2 Remove the fuel tank.
- 3 Remove the RH side cover.
- 4 Remove the air cleaner cover on the RH side of the engine.



- 5 Remove the air cleaner and the airbox backing plate.

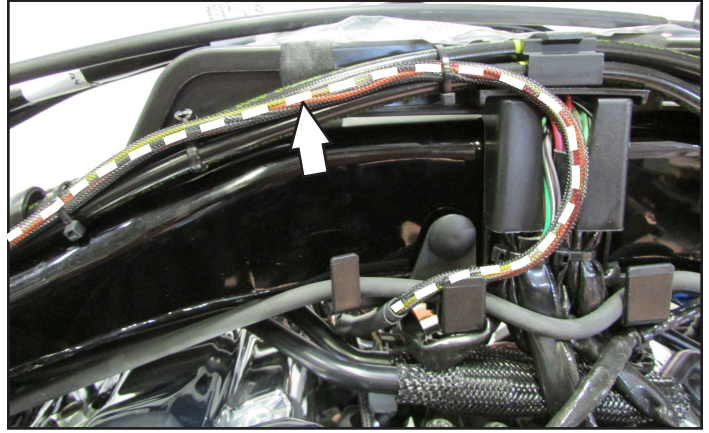


- 6 Install the PCV on top of the ECU using the supplied velcro.

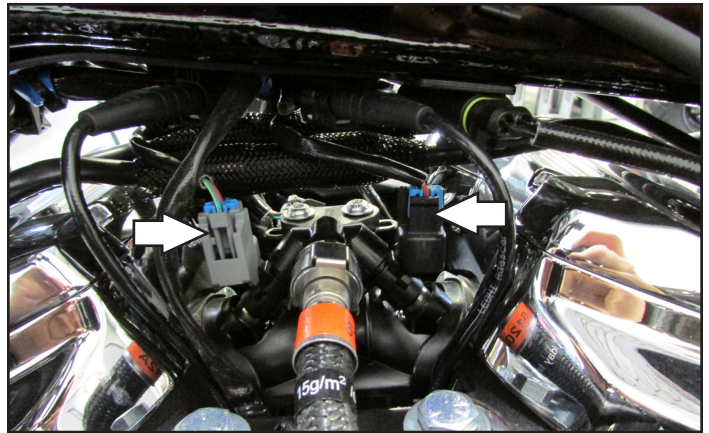
Make sure to clean the surface using the supplied alcohol swab before attaching.

- 7 Route the PCV harness down the right side of the frame and go towards the throttle body.

- 8 Route the PCV harness along the backbone of the frame and secure in place using the supplied zip ties.



- 9 Unplug the stock wiring harness from each injector.



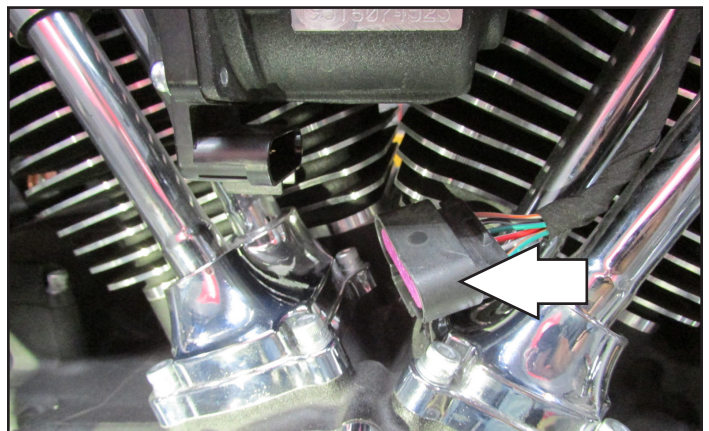
- 10 Plug the PCV in-line of stock wiring harness and injectors.

PCV ORANGE wires go to the front cylinder (stock GREY connector)

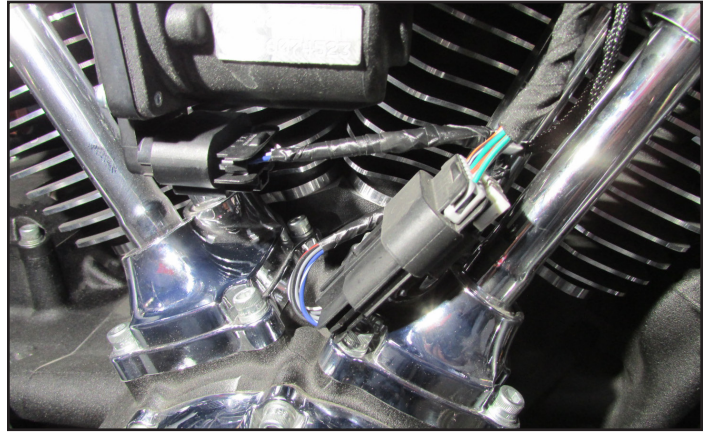


- 11 Unplug the stock wiring harness from the Throttle Position Sensor.

This is connected on the RH side of the engine below the throttle body.

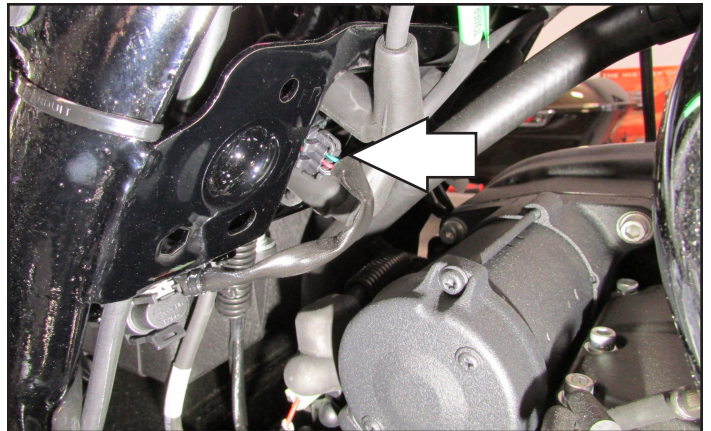


- 12 Connect the PCV in-line of the TPS and wiring harness.

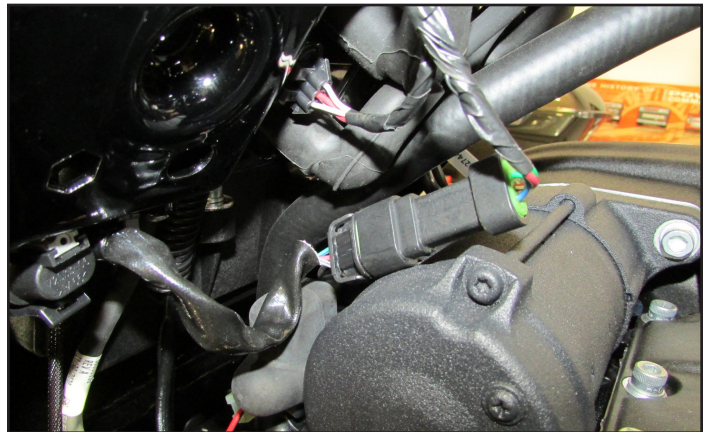


- 13 Unplug the stock wiring harness from the ignition coil.

This is located on the right side of the engine, just behind the starter.

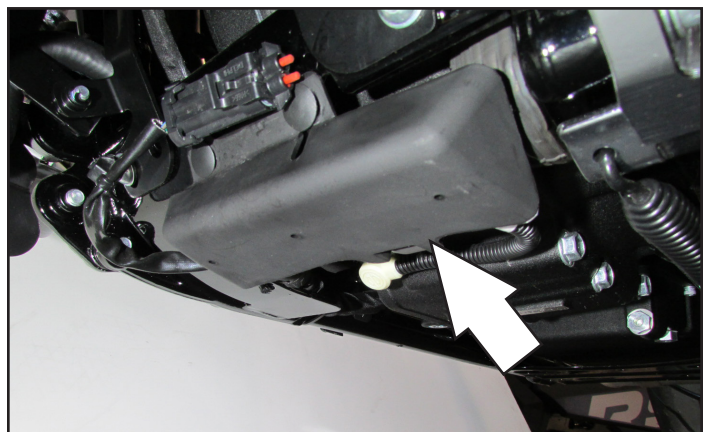


- 14 Connect the PCV in-line of the stock wiring harness and ignition coil.

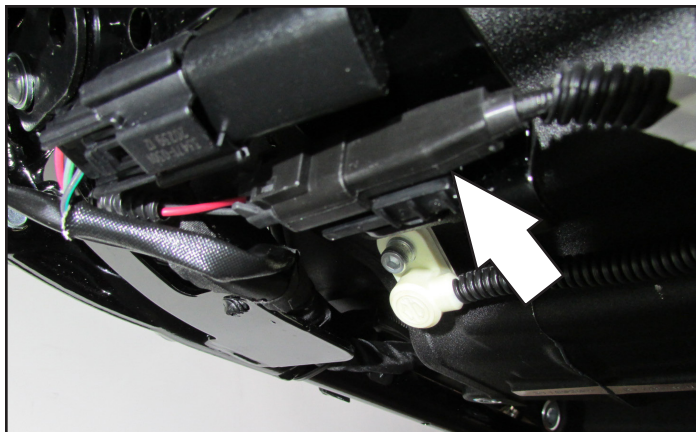


- 15 Route the crank connectors of the PCV down the frametube to the front of the engine.

- 16 Remove the cover at the bottom of the engine to access the Crank Position Sensor connectors.

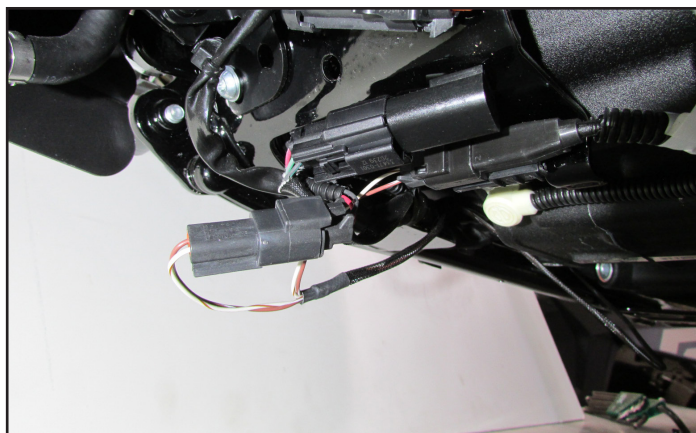


- 17 Unplug the stock Crank Position Sensor.



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

- 19 Reinstall the cover.

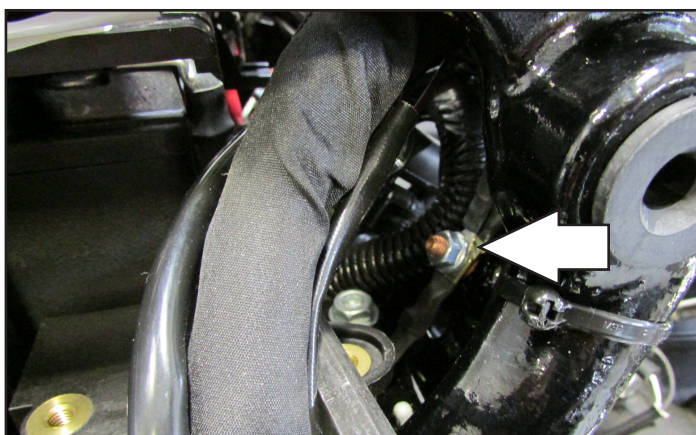


- 20 Attach the ground wire of the PCV to the stock ground location.

This is located under the right hand sidecover.

- 21 Reinstall the fuel tank and bodywork.

Download the latest map files from our web site at dynojet.com/tunes.





PUSH THE LIMIT

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