[POWER COMMANDER V]

2017-2018 Honda CRF450R/RX

Installation Instructions

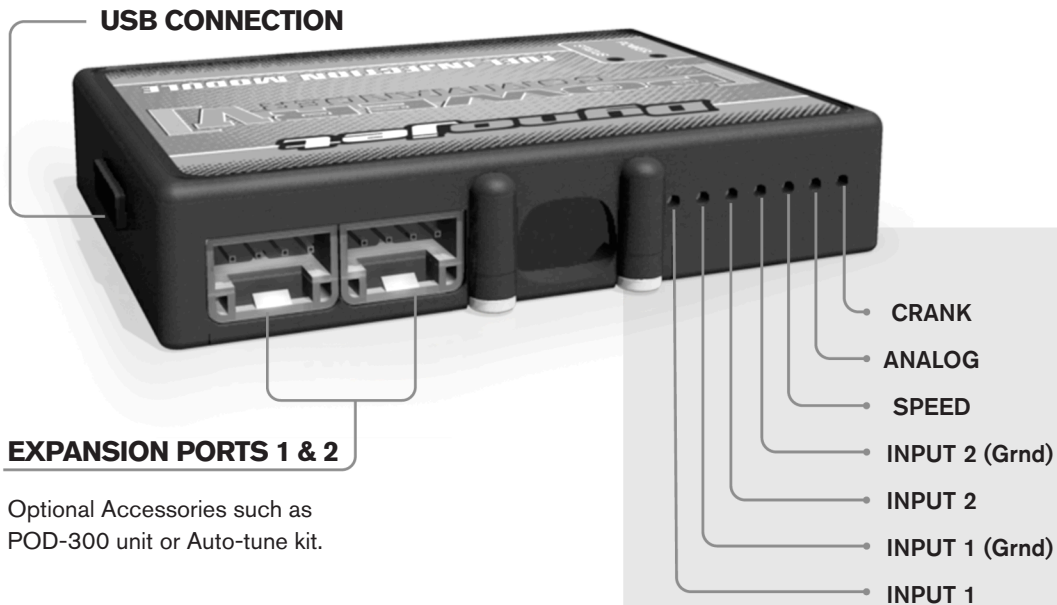**THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION!**

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
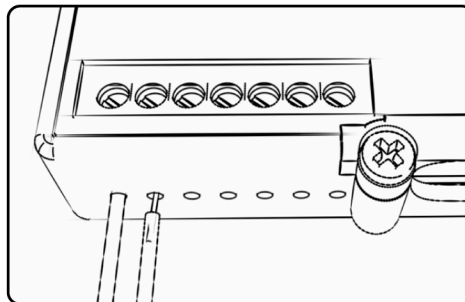
POWER COMMANDER V
INPUT ACCESSORY GUIDE

ACCESSORY INPUTS

USB CONNECTION

CRANK
ANALOG
SPEED
INPUT 2 (Grnd)
INPUT 2
INPUT 1 (Grnd)
INPUT 1

EXPANSION PORTS 1 & 2

Optional Accessories such as POD-300 unit or Auto-tune kit.

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.)
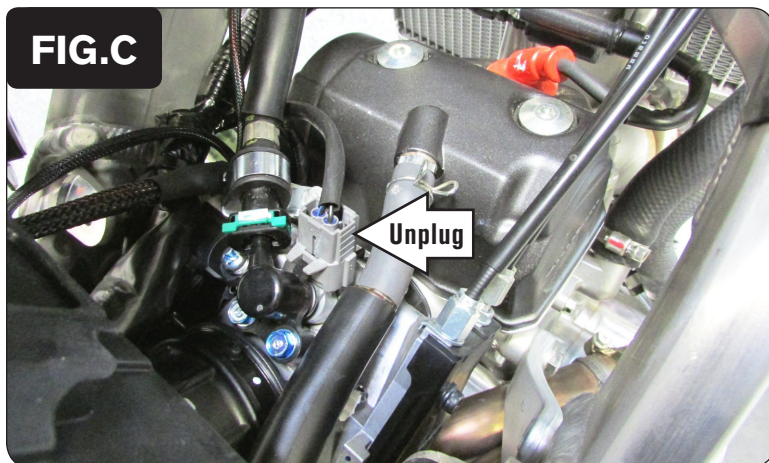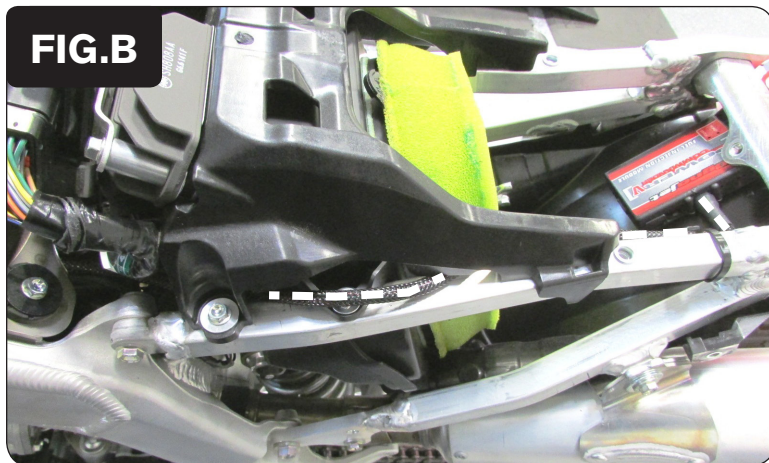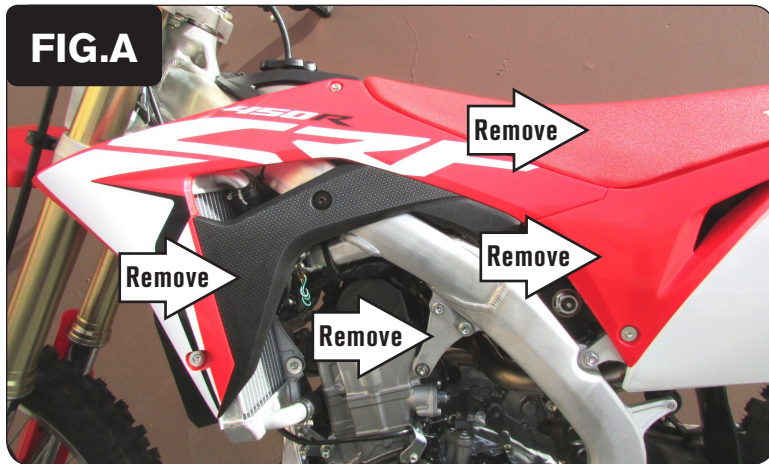
Speed- If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent 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.

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 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.

FIG.A

Remove

Remove

Remove

Remove

FIG.B

FIG.C

Unplug

1   Remove the seat, side covers, and radiator shrouds. Remove the engine mounting bracket on the left side of the bike (Fig. A).

2   Remove the fuel tank.

The fuel tank does not need to be removed entirely. You can just loosen it. You need to be able to access the fuel injector.

3   Use the supplied Velcro to secure the PCV module to the top of the rear fender just behind the airbox (Fig. B). For the 2018 model secure the PCV to the battery.

Clean surfaces with the supplied alcohol swab before attaching the Velcro.

4   Route the PCV wiring harness forward towards the engine following along the left side frame rail.
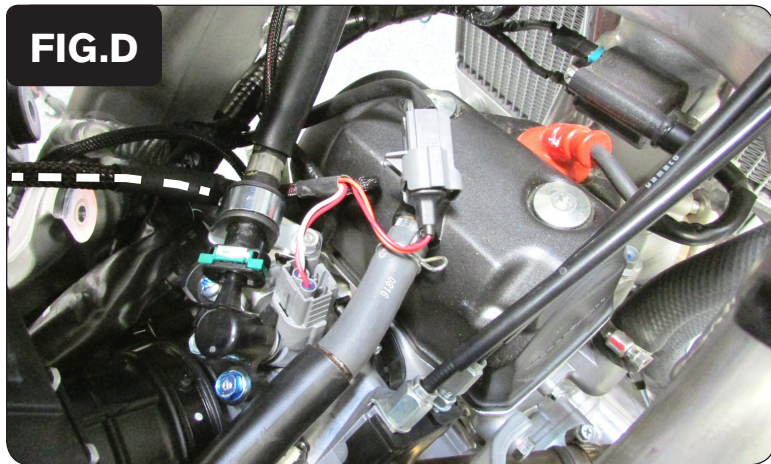
5   Unplug the Fuel Injector (Fig. C).

FIG.D

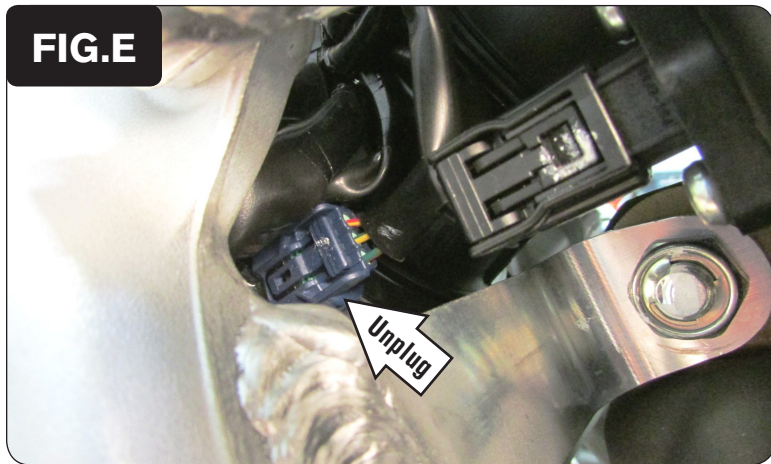6   Plug the PCV wiring harness in-line of the Fuel Injector and the stock wiring harness (Fig. D).

FIG.E

Unplug

7   Unplug the Throttle Position Sensor at the left side of the throttle body (Fig. E).

This connector can be difficult to access. It is a BLUE 3-pin connector.

FIG.F

8   Plug the PCV wiring harness in-line of the TPS and the stock wiring harness (Fig. F).

FIG.G

Unplug

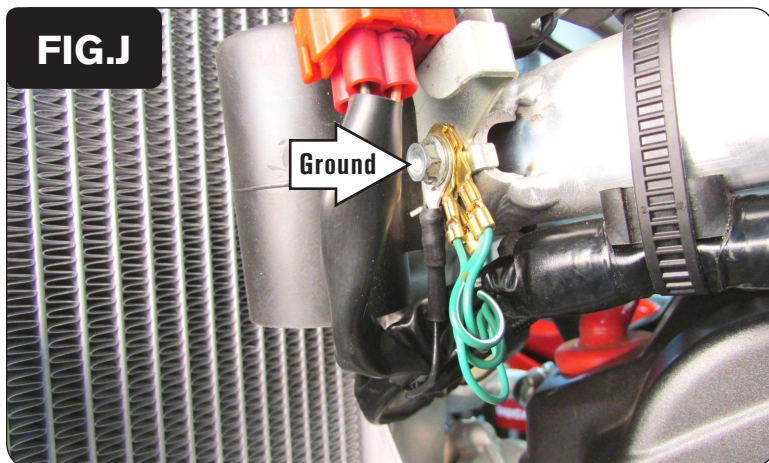**FIG.H**

FIG.J

Ground

9   Unplug the stock Crank Position Sensor connectors (Fig. G).

This is a BLACK 6-pin connector pair. It is located behind the engine mounting bracket that was removed in step 1. It is covered with a BLACK rubber boot.

10   Plug the PCV wiring harness in-line of the stock Crank Position Sensor connectors.

11   Reinstall the left side engine mounting bracket (Fig. H).

12   Secure the PCV ground wire with the small ring terminal to the stock common ground bolt on the left side of the frame (Fig. J).

13   Reinstall the fuel tank, seat, and side covers.