

POWER COMMANDER 6

Installation Guide for: PC6-15025

Model Coverage: 2004-2005 Harley Davidson Dyna

POWER COMMANDER 6

PARTS LIST

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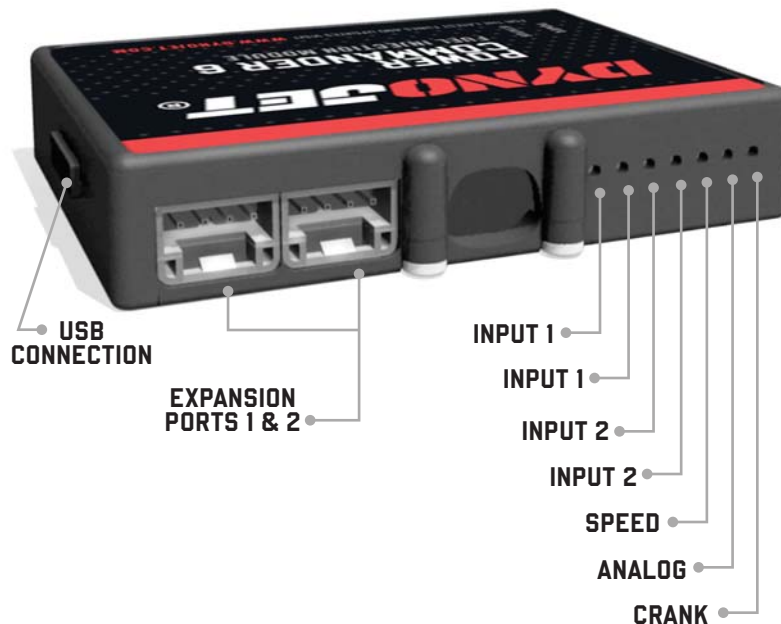
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|----------------------|--------------------------|
| 1 POWER COMMANDER 6 | 2 POWER COMMANDER DECALS |
| 1 INSTALLATION GUIDE | 2 VELCRO STRIPS |
| 1 USB CABLE | 1 ALCOHOL SWAB |
| 2 DYNOJET DECALS | 1 ZIP-TIE |

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

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IPC6-15025.01

INPUT ACCESSORY GUIDE



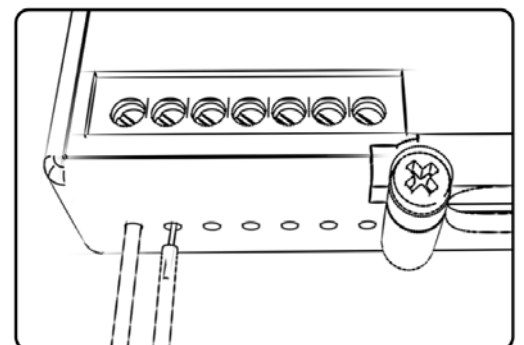
OPTIONAL ACCESSORY INPUTS

- Map** (Input 1 or 2) The PC6 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.
- 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** 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 quick shifter.
- 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 PC6 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 PC6 until it stops and then tighten the screw. Make sure to reinstall the rubber plug.

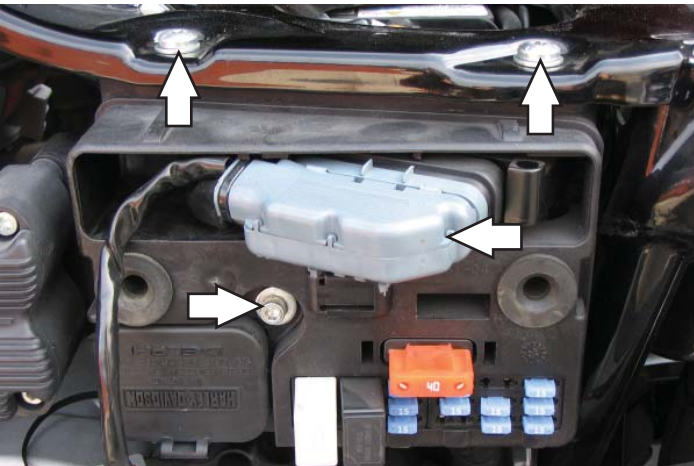
NOTE: If you tin the wires with solder it will make inserting them easier.



INSTALLING THE POWER COMMANDER 6



- 1 Remove the seat
- 2 Remove the left hand side cover.



- 3 Unplug the stock wiring harness connector from the ECM.
- 4 Move the data plug out of the way to access the bolt.
- 5 Remove the 3 bolts that hold the electrical box in place.



- 6 Slide the plastic box out from the frame.
- 7 Route the stock connector through to the back side of the electrical box.

8 Lay the PC6 in the opening of the frame under the seat and route the harness underneath the frame and into the back of the battery box.

9 Route the GREY connector from the PC6 through the back of the electrical box and plug it into the ECM.

10 Connect the stock wiring harness to the BLACK connector of the PC6.

11 Zip-tie these connectors to the frame spar at the front of the electrical box.

Make sure they are situated away from the rear exhaust pipe and engine head.

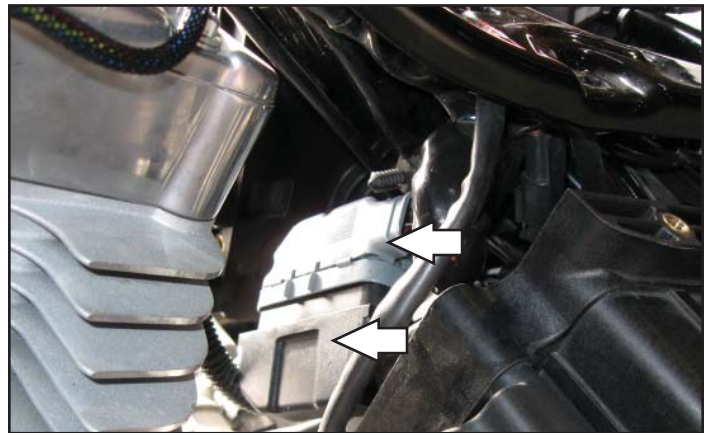
12 Reinstall the electrical box using the stock bolts.

If installing the Autotune kit skip this step until the Autotune kit is fully installed.

13 Install the PC6 in the opening of the frame under the seat.

You can use the supplied Velcro or a zip tie to secure the unit, if desired. Clean both surfaces with the supplied alcohol swab prior to applying the Velcro.

14 Reinstall the left hand side cover and the seat.

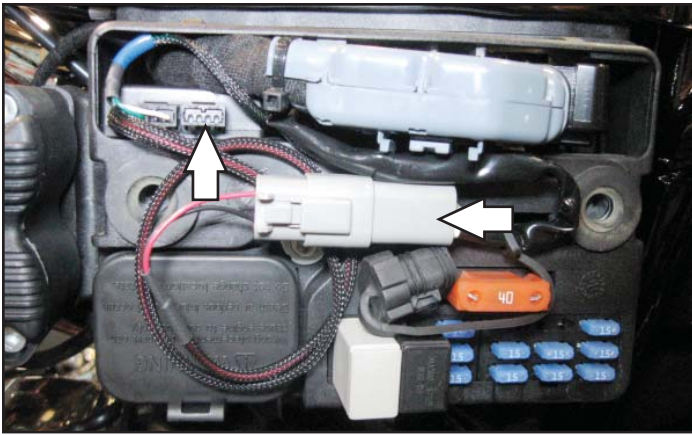


USE THE FOLLOWING INSTRUCTIONS WHEN INSTALLING THE AUTOTUNE KIT P/N AT-100B.

Note: Assuming the bike has an exhaust system designed for a 2004-2005 model year Dyna, it should NOT have M18 x 1.5 O2 sensor bungs in the header pipes to accommodate the Autotune kit's wideband O2 sensors. In this case, you will need to weld bungs into the header pipes to use Autotune. The Autotune kits with a part number ending in "B" come with weld-in mild steel bungs supplied.

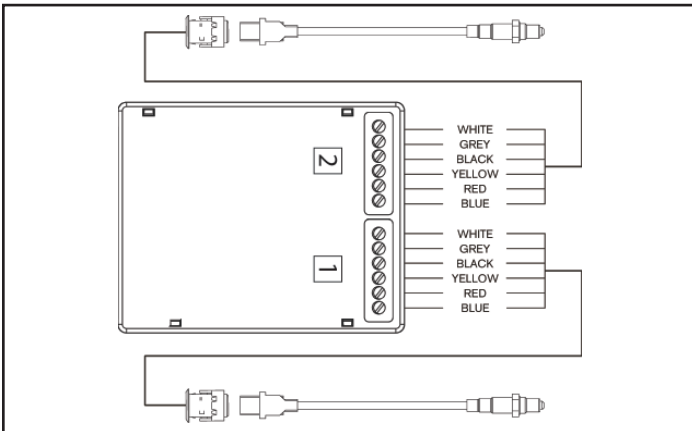
- 1 Remove the seat and the left hand side cover.
- 2 Remove the rubber plug for the stock diagnostic plug. Plug the power lead from the Autotune module into the diagnostic plug.





- Using the supplied Velcro, install the Autotune module inside the electrical box next to the ECM.

Make sure the Velcro does not cover the designation of the sensor inputs on the back (#1 or #2). The inputs are coded to the front and rear cylinders.

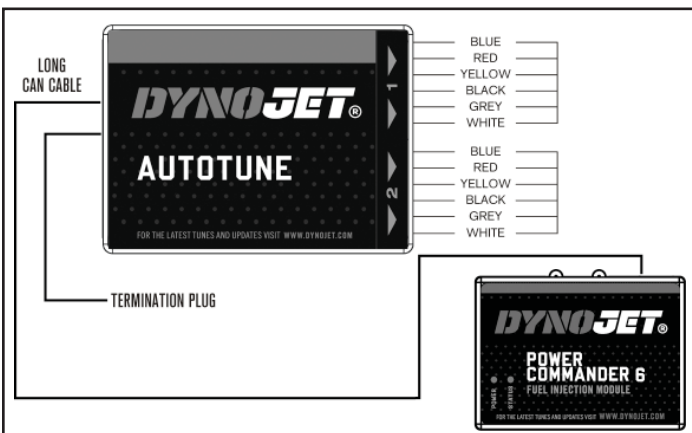


- Connect the longer harness to the front O2 sensor. Route the harness along the front down tube and along the backbone of the frame to Autotune input #1. Wire the harness to the module per Figure I.

The harness can be cut to length if desired.

- Repeat step 4 for the rear cylinder. Wire the harness to Autotune input #2.

The harness can be cut to length if desired.



- Use the CAN bus cable to connect the Autotune module to the PC6. It does not matter what ports are used.
- Install the CAN termination plug into the open port of the Autotune module. This is the BLACK plastic connector in the kit.
- Secure the harnesses in place as to not contact the exhaust or any other hot or moving parts.
- Reinstall the seat and left hand side cover.

In the PC6 software go to Power Commander Tools - Configure - Autotune to enable the unit.

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



PUSH THE LIMIT

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