POWER COMMANDER 6

Installation Guide for: PC6-15024

Model Coverage: 2001-2006 Harley Davidson Softail

PARTS LIST

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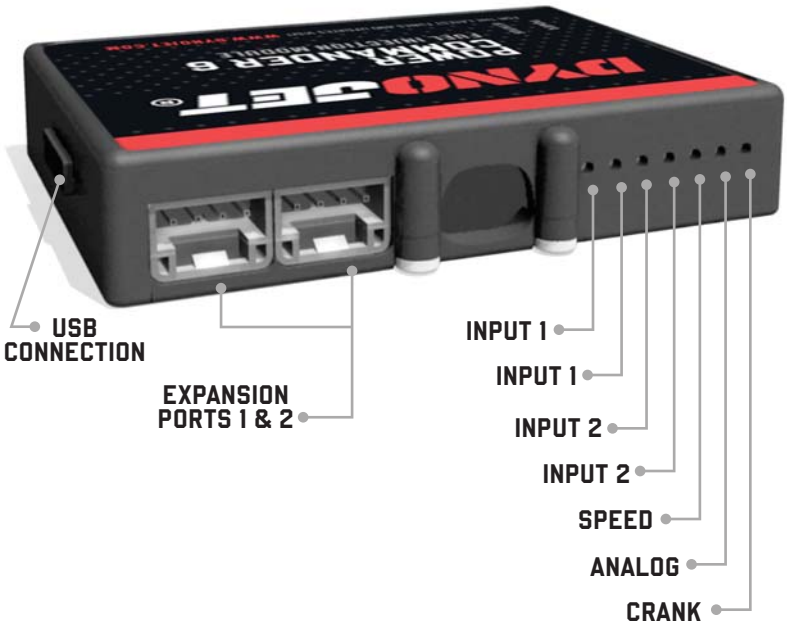
2	POWER COMMANDER DECALS		

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

IPC6-15024.01

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.

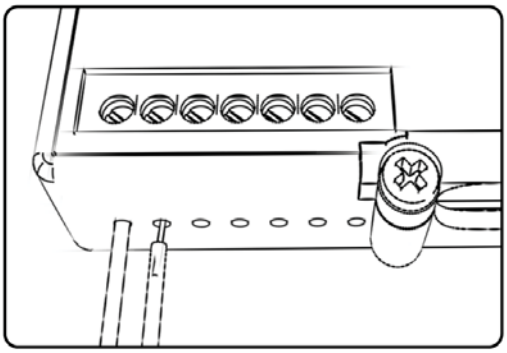
Analog This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the Power Core software.

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.



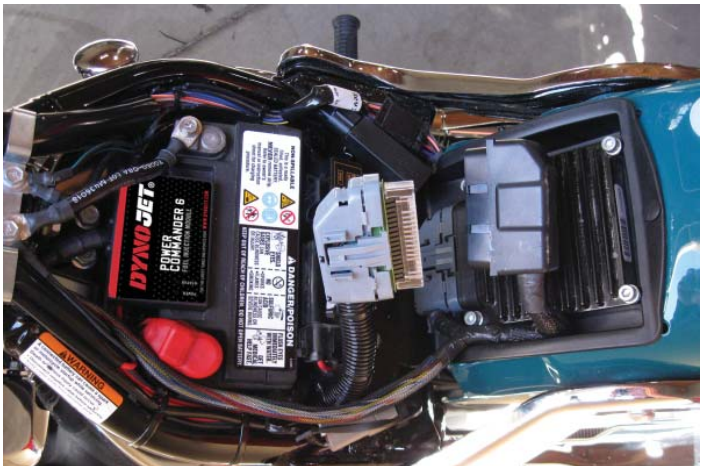
INSTALLING THE POWER COMMANDER 6

1 Remove the seat.

2 Unplug the stock wiring harness from the ECM.

3 Remove the four bolts that hold the ECM to the tray and remove the ECM.

4 Remove the tray from the rear fender.



5 Install the Dynojet ECM tray to the rear fender.

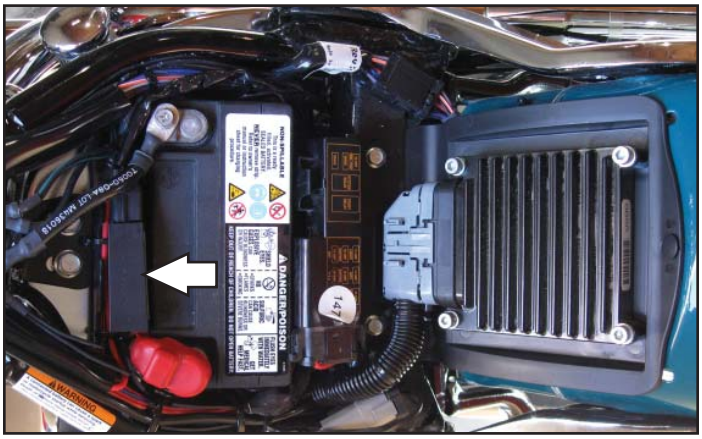
6 Connect the PC6 harness in-line of the stock wiring harness and ECM.

7 Place the BLACK PC6 to GREY stock connector on top of the ECM. Secure these connectors to the ECM using the supplied zip tie.

8 Using the supplied Velcro, secure the PC6 to the top of the battery.

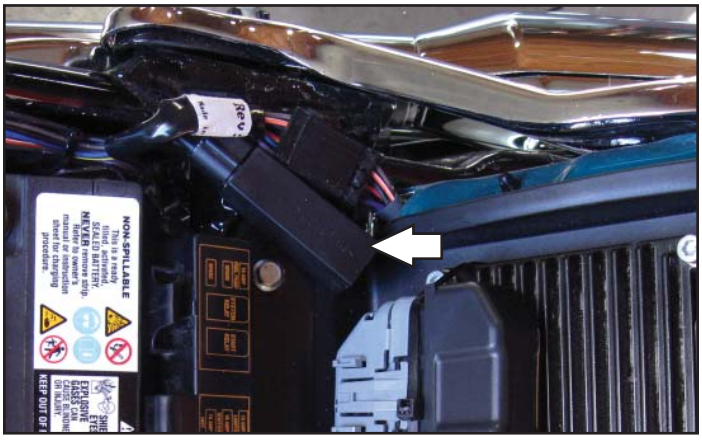
Note: Depending on seat clearance, model variations, accessory options, and other considerations, you might find other module mounting locations to be more suitable. Alternate locations to be considered are on top of the ECM or on top of the rear fender (2-inches rear of the solo seat nut).

Note: If your bike is equipped with a Security Module at the front of the battery, you might find it necessary to relocate the Security Module in order to store the PC6 module on top of the battery.



1 Remove the security module from the top of the battery.

This unit slides to the right of the bike.



2 Move the security module to the right side of the bike. Use a zip tie to secure the module to the tail light connector.

USE THE FOLLOWING INSTRUCTIONS WHEN INSTALLING A SOFTAIL DEUCE, SCREAMING EAGLE DEUCE, OR A 2006 MODEL.

1 Remove the seat.

2 Unplug the stock wiring harness from the ECM.

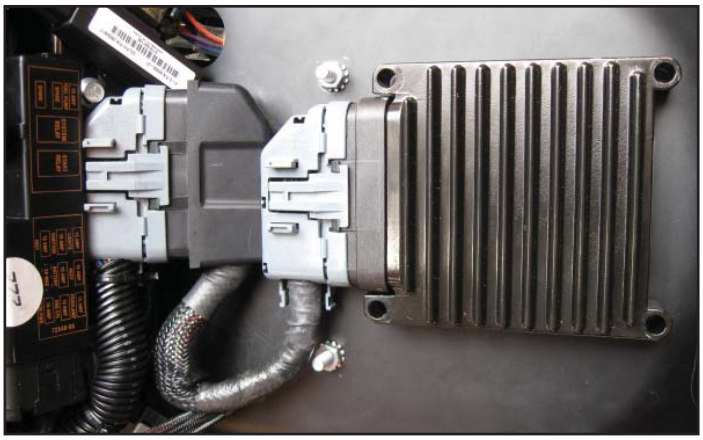
3 Remove the four nuts that hold the ECM to the bracket and remove the ECM.

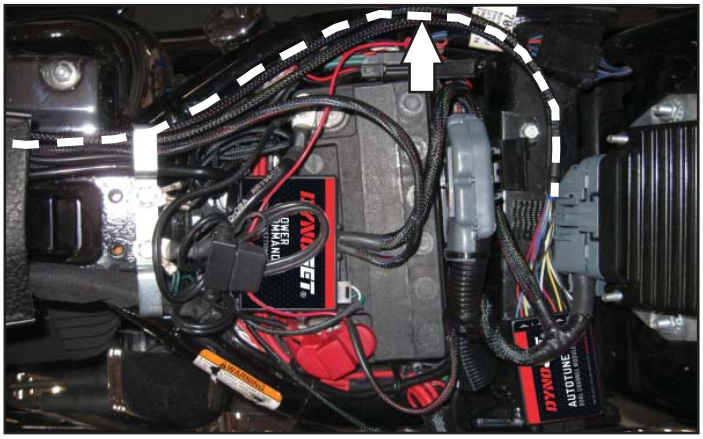
4 Remove the bolt that holds the seat strap to the rear fender.

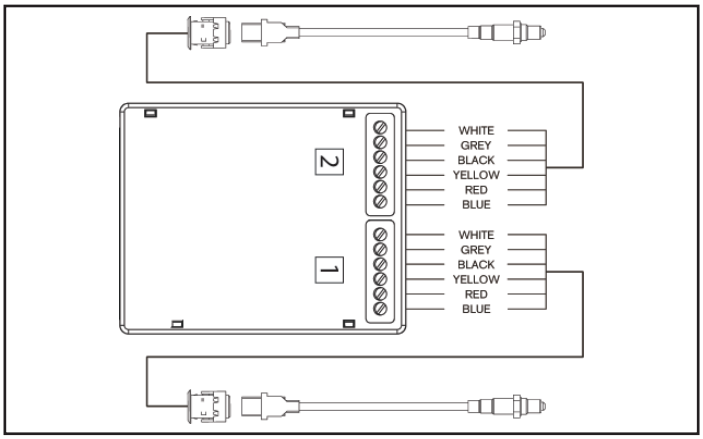
Remove one nut at a time or the bracket will fall into the tire.

5 Reinstall the nuts to support the inner fender bracket.

Due to the limited amount of clearance the seat strap and ECM bracket can NOT re-used.







6 Connect the PC6 wiring harness in-line of the stock wiring harness and ECM.

7 Place the mating BLACK PC6 connector and the stock GREY connector as close to the fuse/relay box as possible.

This connection will NOT lay flat against the frame.

8 Using the supplied Velcro, secure the ECM to the rear fender.

Place the ECM as far down as possible. The upper part of the ECM will just overlap the bolt hole for the seat strap. Clean both surfaces with the supplied alcohol swab prior to applying the Velcro.

If using the Autotune kit offset the ECM about 1-inch from center towards the right hand side of the bike.

9 Using the supplied Velcro, secure the PC6 module to the top of the battery.

Clean both surfaces with the supplied alcohol swab prior to applying the Velcro.

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

Note: Assuming the bike has an exhaust system designed for a 2001-2006 model year Softail, it should not have M18 x 1.5 O2 sensor bungs available in the header pipes for the Autotune 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 bungs supplied.

1 Remove the seat.

2 Connect the longer O2 sensor harness to the front Dynojet O2 sensor. Route the harness along the frame and go around the right hand side of the battery.

3 Repeat step 2 for the rear O2 sensor using the shorter harness.

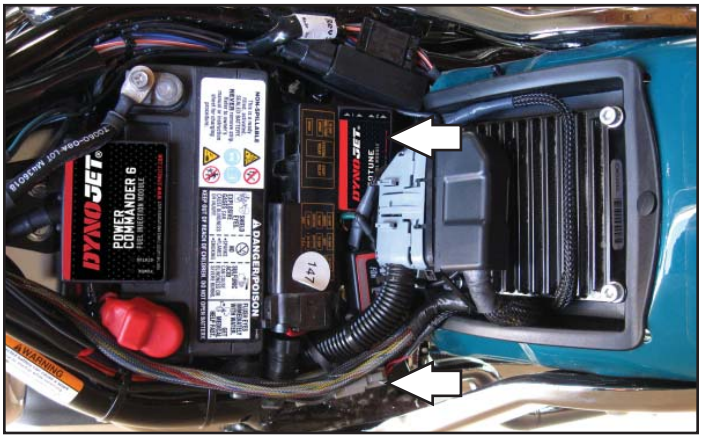
4 Connect the front O2 sensor harness to sensor input #1 on the Autotune module. The harness can be cut to length if desired.

5 Connect the rear O2 sensor harness to sensor input #2 on the Autotune module. The harness can be cut to length if desired.

6 Remove the rubber plug from the stock diagnostic plug. Connect the power lead from the Autotune module into the diagnostic plug.

7 Using the supplied Velcro, secure the module to the frame.

Make sure to use the supplied alcohol swab to clean both surfaces before attaching the Velcro.

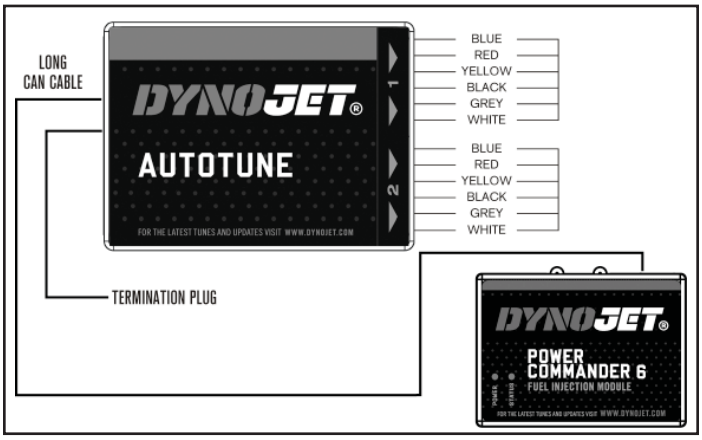


8 Use the CAN bus cable to connect one Autotune module to the PC6.
It does not matter what ports are used.

9 Install the CAN termination plug into the open port of the Autotune module.

10 Secure the harnesses in place. Make sure the O2 sensor harnesses do not contact the exhaust.

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



PUSH THE LIMIT

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