



**CAUTION: CAREFULLY READ INSTRUCTIONS BEFORE PROCEEDING.
NOT LEGAL FOR USE OR SALE ON POLLUTION CONTROLLED VEHICLES.**

OVERVIEW

2006 fuel injected Dyna® and all 2007 and later Harley-Davidson models are equipped with dual narrow-band exhaust gas oxygen (EGO) sensors and a Delphi® ECM that supports closed loop air/fuel ratio (AFR) control based on feedback from the sensors. After the engine has warmed up, the ECM will maintain the AFR at 14.6 during idle and part throttle cruise. While the ECM is in closed loop operation, you cannot change the AFR at idle and part throttle cruise by adding fuel with add-on controllers such as our Twin Tuner series. The ECM will correct for any attempt to add fuel in these operating ranges. For off-road racing where AFR changes are required at idle and part throttle, you can install our oxygen sensor eliminator kit P/N EGO-ELIM-KIT for two wire sensors or P/N EGO-ELIM4-KIT for four wire sensors used on 2010 and later touring models. This consists of a pair of oxygen sensor eliminators that plug into the wire harness in place of the original equipment oxygen sensors. The oxygen sensor eliminators contain a 1.0 megohm resistor that simulates a cold sensor condition and causes the ECM to remain in open loop operation. Once oxygen sensor eliminators are installed, you can make AFR changes throughout the entire engine operating range from idle to wide open throttle.

INSTALLATION

Disconnect the front and rear oxygen sensors from the wiring harness and plug in the oxygen sensors eliminators. You can remove the oxygen sensors from the exhaust. We offer 18 x 1.5 mm hex socket plugs (P/N EGO-PLUG) for this purpose. Note that as long as you do not use leaded racing gasoline, the oxygen sensors used in these applications are not damaged by remaining in the exhaust while disconnected.

Figure 1 – Two Wire Oxygen Sensor Eliminator Kit



Figure 2 – Four Wire Oxygen Sensor Eliminator Kit

