

# TCFI Gen III Fuel Injection Controller for 2001-2008 Twin-Cam

## Features

- Simultaneously auto-tune fuel curves for front and rear cylinders under actual riding conditions with new WEGO IIID dual channel wide-band oxygen sensor interface
- Fully programmable plug-in replacement for 36 pin Delphi® controller
- Robust alpha-N (throttle position and RPM based) fuel control eliminates problems with long duration/high overlap camshafts
- Full support for SAE J1850 data bus used on 2004-2008 models (except 2008 Touring bikes with electronic throttle control)
- Powerful Windows software for custom programming and extended data logging and diagnostics
- Support for new 6<sup>th</sup> gear indicator on 2007 and later models

The TCFI solves tuning problems with highly modified engines using the same system as High-end automotive racing. Alpha-N (throttle position and RPM based) fuel control. Alpha-N eliminates any dependence on manifold pressure and is unaffected by long duration/high overlap camshafts. The TCFI brings this proven technology to the H-D® marketplace.

The TCFI kit includes the new WEGO IIID dual channel wide-band exhaust gas oxygen interface that allows auto-tuning during actual on-road riding conditions. The kit includes Bosch LSU 4.2 wide-band sensor for both front and rear cylinders. The user programs a table with the desired air/fuel ratios - the system then does the rest. No Dyno tuning required!

Idle air control including idle RPM and cold start characteristics are fully programmable. This facilitates the use of aftermarket throttle bodies with higher airflow.



The third generation TCFI fully supports the new SAE J1850 data bus used by 2004-2008 H-D motorcycles for communications between the engine control module, instrument cluster, turn signal/security module, and diagnostic scan tools. The TCFI also has built-in data logging that stores data for the last 60 minutes of operation at 10 samples/second. PC communications is by means of a USB interface that plugs directly into the existing H-D diagnostic connector. Windows compatible software allows use of laptop for programming and data analysis.

Part Number	Description	Suggested Retail
TCFI3-KIT	TCFI III Fuel Injection Kit 2001-2008 Twin-Cam with 36 pin Delphi® System. Includes TCFI III Plug-in Fuel Injection Controller, USB Interface for PC Link, WEGO IIID Dual Channel Wide-band Exhaust Gas Oxygen Sensor Interface, two Bosch LSU 4.2 Wide-band Exhaust Gas Oxygen Sensors, and two 18 x 1.5mm Weld Nuts for exhaust pipe.	\$875.00

**Not Legal for sale or use on pollution controlled vehicles**

