

VRFI Fuel Injection Controller for 2002-2008 V-Rod™

Features

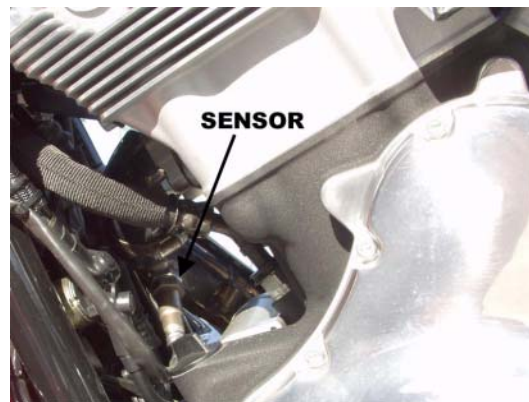
- Simultaneously auto-tune fuel curves for front and rear cylinders under actual riding conditions with new WEGO IID dual channel wide-band oxygen sensor interface
- Fully programmable plug-in replacement for 36 pin Delphi® controller
- Robust alpha-N (throttle position and RPM based) fuel control eliminates problems with long duration/high overlap camshafts
- Full support for SAE J1850 data bus used for communications with turn signal/security module (TSM/TSSM) and instrument cluster
- Powerful Windows software for custom programming and data analysis
- Data logging and diagnostics

The VRFI solves tuning problems with highly modified engines. Competitive "band-aid" products that interface to the Delphi® controller still rely on speed-density fuel control. Long duration/ high overlap camshafts wreak havoc with manifold pressure - especially at idle and cruise RPM. Speed-density based fuel control simply can't cope.

High-end automotive racing systems use 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 VRFI brings this proven technology to the H-D® marketplace.

Unlike competitive "band-aid" products that only control fuel delivery, the VRFI allows complete control over all engine functions, including ignition advance, idle RPM and cold start characteristics.

The VRFI kit now includes the new WEGO IIID dual channel wide-band exhaust gas oxygen interface that allows auto-tuning during actual riding conditions. The kit includes Bosch LSU 4.2 wide-band sensors for both front and rear cylinders. The user programs a table with the



Wide-Band Oxygen Sensor on Front Pipe

desired air/fuel ratios - the system then does the rest. No Dyno tuning required!

All V-Rod™ motorcycles use the SAE J1850 data bus for communications between the engine control module, instrument cluster, turn signal/security module (TSM/TSSM), and diagnostic scan tools. The VRFI fully supports this new J1850 data bus. The VRFI also has built-in data logging that stores data for the last 15 minutes of operation. Windows compatible software allows the use of a laptop PC for programming and data analysis. The USB interface connects to the existing diagnostic connector on the motorcycle wiring harness. For further details, please visit our website.

Part Number	Description	Suggested Retail
VRFID-KIT	VRFI Fuel Injection Kit (for 2002-2008 V-Rod™ with 36 pin Delphi® system Includes VRFI 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 18x1.5mm Weld Nuts for the exhaust pipe). Not legal for use or sale on pollution controlled vehicles.	\$875.00