



Twin Tuner Installation on 2003-2007 Buell® Models Tech Note

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

OVERVIEW

Twin Tuner P/N 16101 can be used on 2003-2007 Buell® models equipped with DDFI electronic fuel injection. The engine control module (ECM) and signal connections differ from those used on Twin Cam models. You can follow the general steps in the Twin Tuner installation instructions, except refer to Table 1 below for wiring hookup. Note that the Buell® ECM has two 12 terminal Deutsch connectors: gray and black. To disassemble Deutsch connectors, use a small flat screwdriver to pry off the orange secondary locks and lift up the retaining tabs to release individual terminals.

Table 1 – Wiring Hookup

Twin Tuner Wires		
Wire Color	To ECM Terminal (connector color and pin number)	Signal
Blue	Black 12	Tach
White	Black 1	Ignition Switch
Red	Black 8	Rear Injector
Orange	Black 5	Front Injector
Violet	Gray 2	Throttle Position Sensor
ECM Wires (removed from ECM connectors)		
Wire Color (ECM terminal)	To Deutsch Plug (Supplied with Twin Tuner)	Signal
Gray (Black 1)	1	Ignition Switch
Pink (Black 12)	2	Tach
Violet/Yellow (Gray 2)	3	Throttle Position Sensor
White/Yellow (Black 5)	4	Front Injector
Green/Gray (Black 8)	5	Rear Injector

WARNING: Installation of the Twin Tuner on 1999-2002 Buell® models will result in a check engine light and diagnostic trouble codes for injector low.