



Twin Tec

Twin Tuner Installation on 2008-2010 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

The standard Twin Tuner P/N 16100 can be used on 2008-2010 Buell® models equipped with electronic fuel injection using the new DDFI module with two 34 pin connectors including the 1125R model. 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 34 terminal Delphi connectors: gray and black. These Delphi connectors are very easily to disassemble. Press on the center white locking tab with a small screw driver to allow terminal removal. After installation of the Twin Tuner terminals, press the two white locking tabs on the opposite side of the connector to lock the terminals in place. If all the terminals are not completely seated, you cannot get the two locking tabs to snap in position. A good ground connection for the Twin Tuner can be found on the frame next to the fuse box (or horn mount on the 1125R model).

1125R models do not have a tach signal connection in the OE (original equipment) wire harness. However you must still install the blue wire from the Twin Tuner into terminal 22 on the black ECM connector. Remove the seal from terminal 22 and install it in position 2 on the mating Deutsch plug supplied with the Twin Tuner. On 1125R models the Twin Tuner can be attached on top of the ECM with Velcro strips.

Table 1 – Wiring Hookup

Twin Tuner Wires		
Wire Color	To ECM Terminal (connector color and pin number)	Signal
Blue	Black 22	Tach
White	Black 9	Ignition Switch
Red	Black 30	Rear Injector
Orange	Black 29	Front Injector
Violet	Gray 4	Throttle Position Sensor
ECM Wires (removed from ECM connectors)		
Wire Color (ECM terminal)	To Deutsch Plug (Supplied with Twin Tuner)	Signal
Gray* (Black 9)	1	Ignition Switch
Pink ** (Black 22)	2	Tach
Violet/Yellow (Gray 4)	3	Throttle Position Sensor
White/Yellow (Black 29)	4	Front Injector
Green/Gray (Black 30)	5	Rear Injector

* Red/Black on 1125R model

** Not present on 1125R model OE wire harness

Figure 1 – Completed Wiring at ECM

