

HALTECH™

ENGINE MANAGEMENT SYSTEMS

E6GM Series

Fuel and Ignition Control System

E6GM System

The HALTECH **E6GM** is a powerful "real-time" programmable fuel injection and ignition system computer designed as a plug-in replacement for certain models of DELCO computers used in General Motors and some other brands of motor vehicles.

There is no need to install a wiring harness, sensors, relays, etc. Simply plug it in, connect a suitable personal computer, boot up the supplied software, and presto, you have a "real-time" programmable engine management system!

The **E6GM** has been designed for installations where changes have been made to the engine and full programmability is desired.

The patented HALTECH system of programming virtually eliminates the input of numbers. You simply manipulate graphics in the form of bar graphs and by pressing arrows you increase or decrease the amount of fuel delivered at that particular load point.

The process is repeated for all load points in each rev range.

Ignition timing is precisely mapped through the rev range so that the exact timing required to obtain performance is applied in every rpm and load range.

As an alternative to performance chips you get the following advantages:

- Tune your own car
- Have a spare computer
- Flexibility in programming to suit your application
- Modify the engine later and simply re-program
- Fit a turbo or supercharger, simply re-program

The **E6GM** systems are available in 2 forms; The **E6GM** is capable of running 4 low impedance injectors or up to 8 high impedance injectors in standard trim. The **E6GM-8** variant will double this ability allowing 8 low impedance or up to 16 high impedance injectors to be controlled. If you are unsure of your application or require assistance please contact Haltech or its representatives for assistance.

E6GM Specifications

E6GM Kit Contents: Ignition
 Electronic Control Unit (ECU) Configuration:
 Programming Software Single Distributor
 Communication Cable Direct Fire (1-4) & 6,8*
 Instruction Manual Prog. Ignition Waveform
 (*using GM DFI modules only)

System Features:
 Number of Cylinders 4, 6, and 8, **Injector Firing Mode:**
 Max Operating RPM 16000 rpm Multi-Point
 RPM Range increments 500/1000 Batch Fire
 Max. Range 10500/16000 rpm
 Number of Fuel Maps 22/17
 Number of Ignition Maps 22/17
 Number of Bars per Map 32

Fuel Correction Maps:
 Coolant Temperature
 Air Temperature
 Battery Voltage
 Full Throttle
 Throttle Pump
 Auto Barometric Comp.
 Zero Throttle
 Cold Prime

Ignition Correction Maps:
 Air Temperature
 Ignition Crank
 Coolant Temperature

Trigger Signal Type:
 Hall Effect Sensor
 Optical Sensor

Trigger Pattern:
 Single Pulse per Cycle

ECU inputs:
 MAP Sensor
 Coolant Temperature
 Air Temperature
 Throttle Position
 Primary Trigger
 Oxygen Sensor
 Gen. Purpose Analog

ECU Outputs:
 Injector Drivers E6GM(4)
 E6GM-8 (8)
 Fuel Pump Relay Control
 Idle Air Control (IAC)
 Ignition Output
 Torque Converter Lockup
 Thermo-fan Control

Accessories:
 Fuel/Ignition Trim Module
 Oxygen Sensor

Engine Data:
 US or Metric units
 Map Storage and Retrieval
 Data Logging