HALTECH™
ENGINE MANAGEMENT SYSTEMS

F10 Series

Fuel Injection Control System

F10 System Description

*The HALTECH **F10** is a powerful "real-time" programmable fuel injection system computer designed for those seeking optimum performance.*

No other system in the same class is as adaptable, easy to install or program.

*The **F10 System** has up to 22 adjustable fuel maps each with 32 individual bars. The **F10** will run up to 16000 rpm with better resolution and greater accuracy than ever before.*

*The **F10** is available in 2 configurations: **F10** and **F10-8**. The standard configuration is the 4 injector driver **F10**, capable of controlling 4 low impedance or 8 high impedance injectors. The **F10-8** has 8 injector drivers capable of controlling 8 low impedance or 16 high impedance injectors. If necessary an additional driver box can be added for more injector outputs.*

Injectors can be controlled directly, fired all together, in batches, or can be staged when running high boost turbo or superchargers.

*In standard form the **F10** allows Closed Loop Idle Speed Control, Closed Loop 0_2 Correction plus 4 PWM Outputs.*

*The **F10** PWM Outputs include:*

- *Electronic Boost Control*
- *Turbo Timer*
- *Torque Converter Control*
- *Thermofan*
- *Intercooler Fan*
- *Shift Light*
- *BAC Valve*
- *Staging Signal*
- *Dual Intake Valve*
- *Auxilary Fuel Pump*
- *Stall Saver*

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 rpm range.

F10 Specifications

F10 Kit Contents:

Electronic Control Unit (ECU)
Flying lead wiring loom
2 x Power Relays
Air Temperature Sensor
Coolant Temperature Sensor
MAP Sensor (Extra)
Throttle Position Sensor
Communications Cable
Programming Software
Instruction Manual

System Features:

Number of Cylinders 1-6,8,10,12 and 1-2-3 Rotors
Max Operating RPM: 16000 rpm
RPM Range Inc: 500/1000 rpm
Max. Range: 10500/16000 rpm
Number of Fuel Maps: 22/17
Number of Bars per Map: 32

Fuel Correction Maps:

Coolant Temperature
Air Temperature
Battery Voltage
Cold Prime
Zero Throttle
Full Throttle
Throttle Pump
Auto Barometric Comp.

Trigger Signal Type:

Hall Effect Sensor
Coil Negative
Optical Sensor

Trigger Pattern:

Single Pulse per Cycle

Injector Firing Mode:

Multi-Point
Throttle Body (Batch)
Staged

ECU Inputs:

Primary Trigger
Air Temperature
Throttle Position
MAP Sensor
Coolant Temperature

ECU Outputs:

*Injector Drivers **F10 (4)** **F10-8 (8)***
Fuel Pump Relay Control
*PWM outputs (x4)**
*Special pupose digital (1)**
*Idle air control (IAC)**
*Closed loop O2 correction**

Accessories:

Fuel / Boost Trim Module
Boost Control Solenoid
Idle Air Control Motor
O2 Sensor

Engine Data:

Map Storage and Retrieval
Data Logging
US or Metric Units

*For more information & free demo software please visit our website at **www.haltech.com** ◆ For any enquiries you are most welcome to contact us at:*
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