



POWERCONTROL technologies

ECU Type: 967

Ignition System

Engines having up to four cylinders, equipped with ignition distributor or without distributor

Fuel Injection System

Engines up to four cylinders, grouped injection, engines not equipped with ignition distributor

Ignition Output

ECUs have built-in amplifiers for direct ignition coil drive. Coil-on-plug and redundant spark capabilities

Control Strategies

Main Maps

Fuel Injection and Ignition Timing are controlled from base maps of Engine Speed (64 programmable map sites) and Engine Load (16 programmable map sites). Throttle Angle or Manifold Pressure (MAP)

Compensation Maps

Compensations are applied to fuel injection duration and ignition timing via Engine Temperature, Intake Air Temperature, Barometric Pressure and

Data Security

All maps and data are programmable by the user. Security coded access to mapping data

On-Board Diagnostics

On-board diagnostics, fault-code memory and fault indication

Inputs

- Engine Speed and Position
- Throttle Position (TPS)
- Manifold Pressure (optional)
- Barometric Pressure
- Engine Temperature
- Air Temperature
- Battery Voltage
- Lambda Sensor
- Fuel Pressure (optional)
- Oil Pressure (optional)
- Oil Temperature (optional)
- Launch Control Switch
- Powershift Switch

Outputs

- Up to six Fuel Injectors
- Two Direct High Energy Ignition
- Tachometer
- Fault Diagnostic Lamp
- Fuel Pump Relay
- Two programmable outputs
- High Speed Data Logger interface



Software Strategies

- Banked Fuel Injection
- Programmable Dwell Control
- Multiple Crank Trigger Wheels
- Acceleration Fuel
- Overrun fuel cut-off
- Closed Loop Lambda
- Fuel Pump Relay
- Gearshift Light
- Radiator Fan Control
- Power On Gearshift facility
- Launch Control
- Diagnostic Fault Lamp
- Engine Data Logging

Windows '98 Mapping

- Windows 98 mapping interface
- Graphical Map editing
- Incremental Keyboard Mapping
- Infinitely Adjustable Potentiometer Mapping

Physical Data

- ECU - General**
- Envelope: 145 X 90 X 32 mm (5.7 X 3.5 X 1.3 in)
 - Mass: 190g (0.4 lb)
 - Operating: -40°C to +85°C (-40°F to 185°F)
 - Supply voltage: 6.5V to 23V
- Case**
Black, glass-filled nylon, extremely lightweight
- Mounting**
Twin Velcro strips provided
- Connector**
Sealed 36 pin connector, integral lock

MBE Systems Ltd, The Elliott Center, Elliott Road, Cirencester, GL7 1YS, UK
 T: (+44) 1285 883030 e: info@mbesystems.com
 F: (+44) 1285 883020 e&oe w: www.mbesystems.com