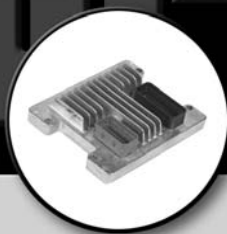


CARDONE **ProTech**

Supporting Today's Professional Technician



ENGINE CONTROL COMPUTER BASICS

INPUTS

A/C Compressor Clutch Signal
A/C "On" Switch
Air Charge Temperature Sensor
Barometric Pressure Sensor
Brake On/Off Switch
Camshaft Position Sensor
Coolant Temperature Sensor
Crankshaft Position Sensor

Detonation Sensor
EGR Valve Position Sensor
Engine Coolant Temperature Sensor
Hall Effect Pick-Up Assembly
High Gear Switch
Manifold Absolute Pressure Sensor
Manifold Air Temperature Sensor
Mass Airflow Sensor

Oxygen Sensor
Park. Neutral Switch
Power Steering Switch
Throttle Position Sensor
Vacuum Sensor
Vehicle Speed Sensor



ENGINE CONTROL COMPUTER

5V signal to sensors (Reference voltage)



OUTPUTS

A/C Cooling Fan Controller
EGR Shut-Off Solenoid
Fuel Injectors
Fuel Pump Relay
Idle Air Control Motor

Mixture Control Solenoid
Oxygen Feedback Solenoid
Purge control Solenoid
Throttle Air Bypass Valve
Torque Converter Clutch Solenoid



CONTROLS

Air/Fuel Ratio
Cooling System Fan Operation
Early Fuel Evaporation System
EGR-Emission Control System
Fuel Delivery

Idle Air Control Operation
Idle Speed
Ignition Timing
Torque Converter Clutch Engagement

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