

C.A.T.S. Tuner ECM 4F Parameter List

(ECM Configuration File Version P)

ECM Switch Parameters

Open Loop Fuel Control
Transmission Type (X = Manual)
Burst Knock Retard Option (X=Enabled)
No Ref Pulses Diagnostic (Error 12)
O2 Sensor Open Diagnostic (Error 13)
ECT Sensor High Diagnostic (Error 14)
ECT Sensor Low Diagnostic (Error 15)
TPS Sensor High Diagnostic (Error 21)
TPS Sensor Low Diagnostic (Error 22)
Vehicle Speed Sensor Diag. (Error 24)
EGR Diagnostic (Error 32)
MAP Sensor High Diagnostic (Error 33)
MAP Sensor Low Diagnostic (Error 34)
EST Monitor Diagnostic (Error 42)
Knock Sensor Diagnostic (Error 43)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Rich Diagnostic (Error 45)
Fuel Pump Voltage Diagnostic (Error 54)
ADU Diagnostic (Error 55)

ECM Constants

Initial Spark
Main Spark Bias
Maximum Spark Advance
Maximum Spark Retard
Knock Retard Enable Speed Threshold
Knock Retard Enable RPM Threshold
Knock Retard Enable Cool. Temp Threshold
RPM to Bypass Power Enrich. Delay
Power Enrichment Mode Delay
Base Pulse Width Constant
Cold Closed Loop Delay Timer
Warm Closed Loop Delay Timer
Warm Closed Loop Timer Cool Temp Thresh.
Closed Loop Min. Coolant Temp. Threshold
Minimum MAP To Enable BLM
Maximum MAP To Enable BLM
Max RPM for BLM
Maximum BLM
Minimum BLM
Speed To Enable Open Loop Idle
TPS To Enable Open Loop Idle
Minimum Air Fuel Ratio for Open Loop
Maximum Air Fuel Ratio for Open Loop
EGR On, (TPS)
EGR Off, (TPS)
EGR On (Eng Speed)
EGR Off (Eng Speed)
EGR On, (Low MAP)
EGR Off, MAP, (Low MAP)
EGR Off, (High MAP)

EGR On, (High MAP)
Min. Coolant Temp. To Enable EGR
IAC Park Down Position
Maximum IAC Value
Differential IAC For P/N to Drive
IAC Motor Park to Run Delay
Idle RPM Adder - A/C On
TCC Enable Coolant Temp.
TCC Disable %TPS Threshold
TCC Load Limit Hysteresis
TCC Enable Vehicle Speed Threshold
TCC Disable Vehicle Speed Threshold
TCC Enable RPM Threshold
TCC Disable RPM Threshold
Number of Cylinders
PROM ID
Cool. Temp. Compensation Spark Adv. Bias
Spark Advance Added in ALDL Mode

Tables

ECM Switch Table
ECM Constant Table
Main Spark Advance
Base Coolant Temp. Spark Adv. Correction Vs. MAP
Power Enrichment Spark Advance Vs. RPM
Knock Retard Attack Rate Vs. RPM
Max Knock Retard Vs. RPM (in P. E.)
Knock Retard Recovery Rate Vs. RPM
Max Knock Retard Vs. MAP
Start Up Spark Advance Vs. Coolant Temp.
Start Up Spark Advance Decay Delay Vs. Cool Temp.
Start Up Spark Advance Decay Mult. Vs. Cool. Temp.
Main Fuel Table, % Volumetric Efficiency
BPW Vs. EGR Vs. Air Flow
Mean/Rich/Lean O2 Voltage Thresholds Vs. Air Flow
Power Enrich. Air Fuel Ratio Vs. RPM
TPS Threshold For Fast Power Enrich.
TPS Threshold For Normal Power Enrich.
Accel. Enrichment Vs. Differential TPS
Accel. Enrichment Vs. Diff. MAP
Accel. Enrich. Temp. Correction Vs. Coolant Temp.
Open Loop AFR Vs. Coolant Temp.
Open Loop Air Fuel Ratio Vs. MAP
AFR at Startup (Choke)
Choke Air Fuel Ratio Multiplier Vs. Coolant
Crank Air Fuel Ratio Vs. Coolant Temp.
IAC Steps Vs Coolant Temperature
Target Idle RPM Vs Coolant Temp.
EGR Spark Advance Vs. % EGR
% EGR Vs. Load Vs. RPM
EGR % Correction Vs. Load Vs. EGR Duty Cycle
TCC Load Limit Vs. Vehicle Speed