

C.A.T.S. Tuner ECM 61 Parameter List

(ECM Configuration File Version U)

ECM Switch Parameters

VATS Select
Shift Light (Man) = X, TCC (Auto) = O
No Ref. Pulse Diagnostic (Error 12)
O2 Sensor Diagnostic (Error 13)
CTS Sensor High Diagnostic (Error 14)
CTS Sensor Low Diagnostic (Error 15)
TPS Sensor High Diagnostic (Error 21)
TPS Sensor Low Diagnostic (Error 22)
MAT Sensor Low Diagnostic (Error 23)
Vss Diagnostic (Error 24)
MAT Sensor High Diagnostic (Error 25)
EGR Diagnostic (Error 32)
MAP Sensor High Diagnostic (Error 33)
MAP Sensor Low Diagnostic (Error 34)
EST Monitor Diagnostic (Error 42)
Knock Diagnostic (Error 43)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Rich Diagnostic (Error 45)
PROM Diagnostic (Error 51)
Missing Cal-Pack (Error 52)
VATS Diagnostic (Error 53)
Fuel Pump Relay Diagnostic (Error 54)
ADU Diagnostic (Error 55)

ECM Constants

Initial Spark Advance
Main Spark Bias
Main Spark Extended RPM Limit (> 3600)
Extended Spark RPM Slope
Cool Compensation Spark Table Bias
Highway Mode Spark Adv. Load Threshold
Highway Mode Spark Adv. Speed Threshold
Maximum Spark Advance
Spark Advance Added in ALDL Mode
Number of Cylinders
Fuel Cutoff Speed
Fuel Resume Speed
IAC Park Postiton
Target Idle (A/C Off)
Target Idle (A/C On)
Maximum Cold Engine Speed
Maximum Hot Engine Speed
BPW Constant
Stoichiometric Air Fuel Ratio
Maximum AFR
Minimum Coolant Temp. For Closed Loop
Warm Closed Loop Delay Timer
Cold Closed Loop Timer
Maximum RPM For BLM Enable
Minimum MAP for BLM Enable
Maximum MAP for BLM Enable

Maximum BLM
Minimum BLM
BLM RPM Boundary Hysteresis
BLM MAP Boundary Hysteresis
Minimum Integrator Value
Maximum Integrator Value
EGR Off, (TPS)
EGR On, (TPS)
EGR Off, (Speed)
EGR On, (Speed)
EGR Off, (Low MAP Threshold)
EGR On, (Low MAP Threshold)
Air Divert Disable Coolant Temp.
Air Divert Enable MPH Threshold
TCC Lock, (Low Gears)
TCC Unlock, (Low Gears)
TCC Lock, (Hi Gears)
TCC Unlock, (Hi Gears)
PROM ID
Shift Light Enable Coolant Temp.

Tables

ECM Switch Table
ECM Constant Table
Main Spark Advance Vs. RPM Vs. Load
Cool Compensation Spark Advance Vs Load
Power Enrichment Spark Correction Vs. Load
Highway Mode Spark Advance Vs. Vacuum
TCC Locked Spark Advance Correction Vs. Vacuum
Knock Attack Rate Vs. Vacuum (Not In P.E.)
Knock Recovery Rate Vs. Vacuum (Not In P.E.)
Max Knock Retard Vs. MAP
Knock Attack Rate Vs. RPM (In P.E.)
Knock Recovery Rate Vs. RPM (In P.E.)
Max Knock Retard Vs. RPM (in P.E.)
Main Fuel Table #1, %Volumetric. Efficiency
Main Fuel Table #2, %Volumetric. Eff. Adder
BPW Constant Vs Vacuum (EGR On)
BLM Cell RPM Boundaries
BLM Cell MAP Boundaries
TPS Threshold Vs. RPM for P.E. Mode
TPS Threshold Vs. RPM for P.E. Mode (Hi Temp.)
Power Enrichment AFR Vs. RPM
Highway Mode AFR Vs. Vacuum
Accel. Enrichment Vs. Differential TPS
Accel. Enrichment Vs. Differential MAP
Accel. Enrich Correction Factor Vs. Coolant Temp.
Open Loop AFR Correction Vs. MAP
Open Loop Air Fuel Ratio Vs. Coolant Temp.
Air Fuel Ratio at Startup Vs. Cool. Temp. (Choke)
Choke Air Fuel Ratio Multiplier Vs. Coolant Temp.
Crank Air Fuel Ratio Vs. Coolant Temp.
Rich O2 Voltage Threshold Vs. Air Flow
Lean O2 Voltage Threshold Vs. Air Flow
Unfiltered O2 Mean Rich/Lean Thresh Vs. Air Flow
IAC Steps Vs. Coolant Temperature
TCC Load Limits Vs MPH (Low Gears)
TCC Load Limits Vs. MPH (High Gears)