

C.A.T.S. Tuner ECM D5 Parameter List

(ECM Configuration File Version D)

ECM Switch Parameters

O2 Sensor Diagnostic (Error 13)
MAT Sensor Low Diagnostic (Error 23)
Vehicle Speed 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)
Cylinder Select Diagnostic (Error 41)
Knock Diagnostic (Error 43)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Rich Diagnostic (Error 45)
VATS Diagnostic (Error 46)
Oil Temp Sensor Low Diag. (Error 52)
Fuel Pump Voltage Diagnostic (Error 54)
Oil Temp Sensor High Diag. (Error 62)

ECM Constants

Fuel Cut Off Speed
Fuel Resume Speed
Fuel Cut Off Engine Speed
Fuel Resume Engine Speed
Cylinder Volume
Number of Cylinders
Initial Spark Advance
Maximum Spark Advance
Base Cool. Adv. Correction Table Bias
Min. Coolant Temp for Highway Spark Adv.
Min. RPM for Highway Spark Advance
Max MAP for Highway Spark Advance
Highway Spark Advance Delay Timer
Low Octane Retard MAP Threshold
Low Octane Retard Diff MAP Threshold
Low Octane Knock Retard Increase Amount
Low Octane Knock Retard Decrease Amount
Low Octane Knock Retard Amount
Stall Saver Spark Adv. On RPM Thresh. 1
Stall Saver Spark Adv. On RPM Thresh. 2
Stall Saver Spark Adv. On RPM Thresh. 3
Stall Saver Spark Adv. Off RPM Threshold
Add to Idle In Park/Neut
Add To Idle A/C On, (Eng. Speed)
Maximum %TPS for Idle
Maximum Vehicle Speed for Idle
IAC Park Position
IAC Learn - Min Coolant Temp
IAC Learn - Max Coolant Temp
IAC Learn Timer
Injector Flow Rate
Stoichiometric Air Fuel Ratio
Cold O2 Closed Loop DelayTimer
Warm O2 Closed Loop DelayTimer

Hot O2 Closed Loop DelayTimer
Min Coolant Temp. For Closed Loop Fuel
Open Loop %Change Fuel/Air Ratio at Idle
Minimum BLM Value
Maximum BLM Value
BLM Update Cell Amount
BLM Update - Min Pos. Integrator Error
BLM Update - Min Neg. Integrator Error
BLM - Update Rate
Force BLM Idle Cell CCP %D.C. Threshold
Minimum Integrator Value
Maximum Integrator Value
Accel Enrich Delta TPS Scale Factor
Accel Enrich Delta TPS PW Scale Factor
Power Enrich Correction, Low RPM/Coolant
P.E. Correction Max Coolant Temp.
P.E. Correction Max RPM
Fast O2 Rich/Lean Threshold at Idle
Fast O2 R/L Threshold Hysteresis at Idle
Upper Zero Error Ref Slow O2 R/L at Idle
Lower Zero Error Ref Slow O2 R/L at Idle
Decel Fuel C/O RPM Enable
Decel Fuel C/O Disable RPM
Decel Fuel C/O MAP Enable
Decel Fuel C/O Disable MAP
Decel Fuel C/O Min Time Between C/O's
Port Tuning Control Lower RPM Enable
Port Tuning Control Lower RPM Disable
Port Tuning Control Upper RPM Disable
Port Tuning Control Upper RPM Re-enable
Port Tuning Control %TPS Enable Thresh.
Port Tuning Control %TPS Disable Thresh.
Port Tuning Control Coolant Temp. Enable
Minimum Coolant Temp. for EGR Enable
EGR %TPS Enable Threshold
EGR %TPS Disable Threshold
EGR Diagnostic Minimum Vehicle Speed
Canister Purge - Coolant Temp. Enable
Canister Purge - Vehicle Speed Enable
Canister Purge - Vehicle Speed Disable
Canister Purge - MAP Enable
Canister Purge - MAP Disable
Canister Purge - TPS Enable
Canister Purge - TPS Disable
Min Canister Purge Duty Cycle (Low TPS)
TCC Lock Speed (not in Overdrive)
TCC Unlock Speed (not in Overdrive)
TCC Lock Speed (in Overdrive)
TCC Unlock Speed (in Overdrive)
TCC Unlock RPM (not in Overdrive)
TCC Lock RPM (not in Overdrive)
TCC Lock RPM (in Overdrive)
TCC Unlock RPM (in Overdrive)
TCC Unlock Prevention Speed Threshold
TCC Enable Coolant Temp. Threshold
PROM ID

Tables

ECM Switch Table
ECM Constant Table

Main Spark Advance Vs. RPM Vs. Load
Main Spark Advance Vs. RPM Vs. Load (EXT)
Base Cool. Adv. Correction Vs. Load Vs. Cool. Temp
Start Up Spark Advance Vs. Coolant Temp.
Closed Throttle Spark Advance Vs. RPM
Highway Mode Spark Advance Vs. MAP
Knock Attack Rate Vs. RPM (Deg/msec)
Knock Recovery Rate Vs. RPM (%/sec)
Maximum Knock Retard Vs. MAP
Volumetric Efficiency Vs. RPM Vs. MAP
Volumetric Efficiency Vs. RPM Vs. MAP , (EXT)
TPS Threshold For Power Enrich. Vs RPM
Power Enrich AFR Vs. Coolant Temp.
Accel Enrich Delta TPS PW Factor Vs Async Pulse
Accel Enrich Delta TPS PW Factor Vs Coolant Temp.
Accel Enrich Delta MAP PW Multiplier Vs. Delta MAP
Accel Enrich Delta MAP PW Mult. Vs. Coolant Temp.
Accel Enrich Delta MAP PW Decay Factor Vs. Coolant
Accel Enrich Delta MAP Factor Multiplier Vs. TPS
Accel Enrich Delta MAP Enable Threshold Vs TPS
Open Loop Change to Fuel/Air Vs. Coolant Temp.
Open Loop Change to Fuel/Air Vs. MAP
Injector PW Correction Vs. Battery Voltage
MAT Compensation Counts Vs. MAT
Inv. MAT Term Lookup Delta Multiplier Vs Airflow
Start Up Enrichment Vs. Coolant Temp.
Crank Fuel PW Multiplier Vs. Ref. Pulses (1-16)
Crank Fuel PW Multiplier Vs. Ref. Pulses (>17)
Crank Fuel Pulse Width Vs. Coolant Temp.
Crank Fuel Delivery Delay Vs. MAT
BLM Cell RPM Boundaries
BLM Cell MAP Boundaries
Upper Zero Error Reference for Slow O2 R/L Vs. MAP
Lower Zero Error Reference for Slow O2 R/L Vs. MAP
IAC Warm Park Position Vs. Coolant Temp.
Idle Speed Timeout Steps vs Coolant Temp.
Idle Spark Retard Vs. Idle Speed Error
Idle Spark Advance Vs. Idle Speed Error
Target Idle Speed Vs. Coolant Temp. - Table 1
Target Idle Speed Vs. Coolant Temp. - Table 2
Target Idle Speed Vs. Coolant Temp. - Table 3
TCC Unlock %TPS Vs. Speed (not in Overdrive)
TCC Lock %TPS Vs. Speed (not in Overdrive)
TCC Unlock %TPS Vs. Speed (in Overdrive)
TCC Lock %TPS Vs. Speed (in Overdrive)
EGR % Duty Cycle Vs. Vacuum Vs. RPM
EGR Duty Cycle Multiplier Vs. Coolant Temp.