

C.A.T.S. Tuner ECM 70 Parameter List

(ECM Configuration File Version A)

ECM Switch Parameters

Use BLM in PE Mode if > 128
Init BLM Values to 128 at Startup
Idle BLM Cell Option
Magnetic Speed Sensor Installed
Calculate MPG Option
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)
EST Monitor Diagnostic (Error 42)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Rich Diagnostic (Error 45)
Fuel Pump Voltage Diagnostic (Error 54)

ECM Constants

Spark Reference Angle
Max RPM for Extended RPM Spark
Extended Spark RPM Slope
Base Cool. Adv. Correction Table Bias
MAT Spark Advance Table Bias
Number of Cylinders
Maximum Spark Adv. Relative to Reference
Max Spark Retard Relative to Reference
Time Out Spark Decay Scale Factor
Launch Mode Spark High/Low RPM Threshold
Launch Spark Mode 1 Enable Delta TPS
Launch Mode 2 Enable Delta TPS, Startup
Launch Spark Mode 2 Enable Delta TPS
Launch Spark Mode 1 Enable MPH Limit
Launch Spark Mode 2 Enable MPH Limit
Launch Spark Mode 1 Enable RPM Limit
Launch Spark Mode 2 Enable RPM Limit
Launch Mode Spark Upper Cool Temp Limit
Excessive RPM Retard Enable Cool. Temp.
Fuel Cut Off Engine Speed
Fuel Resume Engine Speed
Base Pulse Constant
PE Delay Bypass RPM Threshold
PE Delay Hi/Lo Cool Temp Threshold
PE Delay Hi/Lo Baro. Threshold
Cold PE Adjust Cool. Temp. Threshold
Cold Temp PE AFR Correction
Accel Enrich Enable Delta MAP Threshold
AE TPS Theshold for 2X Delta MAP Thres.
Accel Enrich Enable Delta TPS Threshold
Warm/Cold C/L Timer Threshold
Warm Closed Loop Timer
Cold Closed Loop Timer

Closed Loop Enable Coolant Temp.
BLM Learn Enable Min MAP Threshold
BLM Learn Enable Max MAP Threshold
BLM Idle Cell %TPS Cell Boundary
BLM Cell RPM Boundary Hysteresis
BLM Cell TPS Boundary Hysteresis
BLM Cell MAP Boundary Hysteresis
Maximum BLM Value
Minimum BLM Value
Closed Loop To Open Loop Upper O2 Thresh
Closed Loop To Open Loop Lower O2 Thresh
Open Loop To Closed Loop Upper O2 Thresh
Open Loop To Closed Loop Lower O2 Thresh
Stoichiometric Air Fuel Ratio
Clear Flood %TPS Threshold
Min Base Pulse High Hysteresis
Min Base Pulse Low Hysteresis
Maximum Async Injector Pulse Width
Minimum Async Injector Pulse Width
C/L Decel Enlean Enable MAP Threshold
C/L Decel Enlean Enable RPM Threshold
Decel Enlean Enable Speed
Decel Enlean Disable Speed
Decel Enlean Enable Delta %TPS Threshold
Decel Enlean Enable Delta MAP Threshold
Decel Fuel C/O RPM Enable
Decel Fuel C/O Disable RPM
Decel Fuel C/O MAP Enable
Decel Fuel C/O Disable MAP
DFCO Disable Low MPH Threshold
DFCO Spark Retard
A/C Disable Coolant Temp.
A/C Disable %TPS Threshold
Fan On Coolant Temp.
IAC Fan On Anticipate Offset
IAC Park Position
Idle Speed Increase for A/C On
Decay Delay of Fan On Anticipate Steps
P/N to Drive Anticipate IAC Steps
TCC Enable Coolant Temp. Threshold
TCC Unlock Negative Delta %TPS Threshold
TCC Unlock Positive Delta %TPS Threshold
TCC Enable Speed, A/C Off
TCC Disable Speed, A/C Off
TCC Enable Speed, A/C On
TCC Disable Speed, A/C On
Shift Light Enable Cool. Temp. Threshold
Shift Light On RPM Threshold
Shift Light On Delay Time
Shift Light Max On Time
EGR %TPS Disable Threshold
EGR %TPS Enable Threshold
Instrument Panel VSS Pulse Divisor
Road Speed Constant

Tables

ECM Switch Table
ECM Constant Table
Main Spark Advance Vs. RPM Vs. Load
Base Cool. Adv. Correction Vs. Load Vs. Cool. Temp

MAT Spark Advance Correction
EGR Spark Correction Vs RPM Vs Vacuum
Power Enrich. Spark Advance Vs. RPM
Launch Mode Spark Correction Vs. Mode Vs. RPM
Launch Spark Multiplier Vs. Coolant Temp.
Spark Retard Vs. Excessive RPM
Highway Mode Spark Advance Vs. Vacuum
Spark Timeout vs Coolant Temp.
Spark Time Out Decay Delay Vs. Coolant Temp.
Spark Time Out Decay Mult. Vs. Coolant Temp.
Volumetric Efficiency Vs. RPM Vs. MAP
Volumetric Efficiency Adder Vs. RPM
BLM Cell RPM Boundaries
BLM Cell MAP Boundaries
Power Enrich. AFR Vs. RPM
Power Enrich Enable Delay Vs. Baro Vs. Cool. Temp.
TPS Threshold For Power Enrich. Vs RPM
Accel Enrich Delta MAP Factor Vs. %TPS
Accel Enrich Delta MAP PW Adder Vs. Delta MAP
Accel Enrich Delta TPS PW Factor Vs Delta TPS
Accel Enrich Vehicle Speed Multiplier Vs. MPH
Accel Enrich Temperature Correction Vs. Cool. Temp
Accel Enrich Temp Correction Vs Startup Cool. Temp
Async Fuel PW Multiplier Vs. RPM
Injector PW Correction Vs. Battery Voltage
Decel. Enlean Coolant Factor Vs. Coolant Temp.
Decel Enlean Delta TPS BPW Factor Vs. Delta TPS
Cold Engine AFR Correction Vs. Vacuum
Cold Engine AFR Correction Vs. Coolant Temp.
Start Up AFR Correction Vs. Coolant Temp.
Start Up Enrich Decay Multiplier Vs. Coolant Temp.
Start Up Enrich Decay Delay Vs. Coolant Temp.
Crank BPW Multiplier Vs. TPS
Crank AFR Vs. Coolant Temp.
Sync Fuel Delay Factor Vs. RPM Vs. %TPS
Rich O2 Threshold Vs. Flow
Lean O2 Threshold Vs. Flow
Mean Rich/Lean Threshold Vs. Flow
Cold Park to Drive AFR Correction Vs. Cool. Temp.
Cold Park to Drive AFR Corr. Delay Vs. Cool. Temp.
Cold Start Fuel Multiplier Vs. RPM
IAC Position Offset Vs. Coolant Temp.
Target Idle RPM Vs. Coolant Temp.
Idle RPM Correction in Park Vs. Coolant Temp.
IAC Position Adjustment for A/C Vs. Baro
IAC Position Adjustment for A/C Vs. Ambient Temp.
IAC Position Adjustment for A/C Vs. MAT
Shift Light Enable RPM Vs. Gear
Shift Light RPM/MPH Ratio Vs. Gear
TCC Lower Load Limit Vs. Speed
TCC Upper Load Limit Vs. Speed
EGR Constant Vs. Vacuum Vs. Airflow