

C.A.T.S. Tuner ECM 3C Parameter List

(ECM Configuration File Version A)

ECM Switch Parameters

Stoichiometric AFR/AFR Table (X = Table)
Two Speed Fan Option (X = Enabled)
VE Learn Option (X = Enabled)
Single/Double Fire Option (X = Single)
Reset Integrator in A. E. (X = Enabled)
Reset Int. if New BLM Cell (X = Enabled)
Reset Integrator in D. E. (X = Enabled)
MAP/TPS BLM Load Criteria (X = MAP)
VATS Option (X = Disabled)
Closed Loop AFR Check (X = Enabled)
Lean Cruise Option (X = Enabled)
RPM Derivative Spark (X = Enabled)
O2 Sensor Open (Error 13)
High Engine Temp. (Error 14)
Low Engine Temp. (Error 15)
ECT Sensor Unstable (Error 16)
ECT Sensor Resistor (Error 17)
TPS Sensor Stuck (Error 19)
TPS Sensor High (Error 21)
TPS Sensor Low (Error 22)
MAT Sensor Low (Error 23)
Vss Diagnostic (Error 24)
MAT Sensor High (Error 25)
MAT Sensor Unstable (Error 26)
VATS Diagnostic (Error 31)
MAP Sensor High (Error 33)
MAP Sensor Low (Error 34)
IAC Motor Error (Error 35)
Vacuum Leak (Error 36)
EST Failure (Error 41)
Bypass Circuit Failure (Error 42)
Knock Sensor Diag. (Error 43)
O2 Sensor Lean Diag. (Error 44)
O2 Sensor Rich Diag. (Error 45)
No Reference Pulses (Error 46)
Battery Voltage Unstable (Error 54)
A/D Conversion Error (Error 55)
Lean Under Load (Error 56)

ECM Constants

Spark Reference Angle
Maximum Spark Advance
Coolant Temp Compensation Spark Bias
Main Spark Extended Slope (Deg/1000 RPM)
Max Knock Spark Retard
Knock Retard Enable RPM
Knock Retard Disable RPM
Knock Retard Enable Coolant Temp.
Burst Knock Retard Enable Coolant Temp.
Burst Knock Retard Enable RPM
Burst Knock Retard Delta TPS Enable

Burst Knock Retard
Maximum Spark Retard
Tip-In Bump Spark Enable Speed
Tip-In Bump Spark Time
Max Tip-In Bump Spark
Max %TPS for Closed Throttle
Torque Management RPM Threshold
Torque Management Forced Spark Advance
VE Table Filter Coefficient (At Idle)
RPM Threshold For VE Filtering
Max. Cool. Temp. For Cold AFR Table
Base Pulse Constant
Minimum Allowable BLM
Maximum Allowable BLM
Stoichiometric AFR
Open Loop Fuel Enable Cool. Temp.
Open Loop Fuel Enable Cool. Temp. (Idle)
Min Sync Injector Pulse Width
Min Async Injector Pulse Width
Max Async Injector Pulse Width
Lean Cruise Enable Coolant Temp
Lean Cruise Enable Vehicle Speed
Idle AFR Disable Vehicle Speed
Idle AFR Delay Time (In Drive)
Idle AFR Delay Time (In P/N)
Crank AFR Decay Delay #1
Crank AFR Decay Delay #2
Crank AFR Decay Step Period
Crank AFR Decay Factor
Clear Flood %TPS Threshold
Accel Enrich Enable Delta %TPS
Decel Enlean Enable Delta %TPS
DFCO Enable RPM
DFCO Disable RPM
DFCO Disable MAP (Auto Trans)
DFCO Disable MAP (Man Trans)
DFCO Enable Vehicle Speed
DFCO Enable %TPS Threshold
DFCO Enable Coolant Temp Threshold
Fuel Cutoff Engine Speed
Fuel Resume Engine Speed
Fuel Cutoff Vehicle Speed
Fuel Resume Vehicle Speed
High Speed Fan On Coolant Temp. Thresh.
High Speed Fan Off Vehicle Speed Thresh
Low Speed Fan On Coolant Temp. Thresh
Low Speed Fan Off Vehicle Speed Thresh.
Normal Idle IAC Motor Position
Initial IAC Motor Position (A/C Off)
Added Initial IAC Position Steps, A/C On
IAC Increase for Closed Loop Fuel
IAC Transient Increase - High Speed Fan
IAC Increase - High Speed Fan
IAC Transient Increase - Low Speed Fan
IAC Increase - Low Speed Fan
Desired RPM Increase for A/C On
Maximum TPS for Idle
Stall Saver Enable RPM Threshold
Stall Save IAC Increase
Number of Cylinders
Road Speed Constant
A/C Disable %TPS Threshhold
A/C Disable RPM Threshold

A/C Re-enable RPM Threshold
Default Baro Pressure
Shift Light Enable RPM/KPH Ratio - 5th
Shift Light Enable RPM/KPH Ratio - 4th
Shift Light Enable RPM/KPH Ratio - 3rd
Shift Light Enable RPM/KPH Ratio - 2nd
Shift Light Enable RPM/KPH Ratio - 1st
Shift Light Max RPM for 4->5 Shift
Shift Light Min RPM for 4->5 Shift
Shift Light Max RPM for 3->4 Shift
Shift Light Min RPM for 3->4 Shift
Shift Light Max RPM for 2->3 Shift
Shift Light Min RPM for 2->3 Shift
Shift Light Max RPM for 1->2 Shift
Shift Light Min RPM for 1->2 Shift
TCC Enable Coolant Temp.
TCC Coast Load Limit Hysteresis
TCC Low Speed Coast Load Limit
TCC High Speed Coast Load Limit
TCC High/Low Coast Threshold
TCC Neg. Delta TPS Unlock Threshold
TCC Pos. Delta TPS Unlock Threshold
TCC Lock Vehicle Speed Threshold
TCC Unlock Vehicle Speed Threshold
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Idle Spark Advance Vs. MAP
Main Spark Advance Vs. RPM Vs. MAP
Coolant Temp. Compensation Spark Advance
Knock Attack Rate Vs. RPM (Deg/msec)
Knock Recovery Rate Vs. RPM (%/sec)
EGR Spark Advance Correction Vs. RPM Vs. Vacuum
Altitude Spark Adv. Correction Vs. RPM Vs. Vacuum
Tip-In Bump Spark Vs. TPS Vs. RPM
Tip-In Bump Spark Decay Rate Vs. TPS
Volumetric Efficiency Vs. RPM Vs. MAP (Low RPM)
Volumetric Efficiency Vs. RPM Vs. MAP (High RPM)
Cold Engine AFR Vs Coolant Temp. Vs MAP
Air Fuel Ratio Vs. RPM Vs. MAP
Injector Offset Vs. Battery Voltage
Idle AFR Vs. Coolant Temperature
Low Pulse Width Injector Offset Vs. BPW
Accel Enrich Multiplier Vs. RPM
Accel Enrich Correction Vs Coolant Temp.
Delta MAP A.E. Decay Factor Vs. Coolant Temp
Decel Enlean Correction Factor Vs. Coolant Temp
Delta MAP D.E. Decay Factor Vs. Coolant Temp
Startup Fuel Enrichment Vs. Coolant Temp.
Startup Enrich. Decay Interval Vs. Coolant Temp.
Initial Crank BPW Table 1 Vs. Coolant Temp.
Initial Crank BPW Table 2 Vs. Coolant Temp.
Lean Cruise AFR Correction Vs. RPM Vs. MAP
Injector Delay (% Ref. Period) Vs. RPM Vs. TPS
% Cool Contribution for Charge Temp Vs. RPM Vs MAP
Desired Idle RPM Vs. Battery Voltage (In Drive)
Desired Idle RPM Vs. Battery Voltage (In P/N)
Desired Idle RPM Vs. Battery Voltage (Manual Trans

IAC Warmup Motor Position Offset Vs. Coolant Temp.

IAC Warmup Decay Rate Vs Coolant Temp.

Fast Idle Offset Vs Coolant Temp.

TCC Unlock %TPS Threshold Vs. Vehicle Speed

TCC Lock %TPS Threshold Vs. Vehicle Speed