

# C.A.T.S. Tuner ECM 36 Parameter List

## (ECM Configuration File Version B)

### ECM Switch Parameters

EGR Option (X = Enabled)  
ECM Fan Control Option (X = Enabled)  
VATS Option (X = Enabled)  
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)  
O2 Sensor Lean Diagnostic (Error 44)  
O2 Sensor Rich Diagnostic (Error 45)  
VATS Fuel Cutoff (Error 71)  
VATS Data Loss (Error 72)

### ECM Constants

Spark Reference Angle  
Max Spark Advance Relative to TDC  
Max Spark Retard Rel. to TDC (no knock)  
Max Spark Retard Rel. to TDC (Knock)  
Main Spark Advance Table Bias  
Base Cool. Adv. Correction Table Bias  
MAT Spark Advance Table Bias  
Launch Mode Spark Enable Delta TPS  
Launch Mode Spark Enable Delta MAP  
Launch Mode Spark Disable Speed  
Launch Mode Disable RPM  
Launch Mode Disable Speed  
Max Knock Retard in Power Enrich.  
Knock Retard Enable Coolant Temp.  
Accel Enrich Enable Delta MAP Threshold  
AE TPS Theshold for 2X Delta MAP Thres.  
Accel Enrich Enable Delta TPS Threshold  
PE Delay Hi/Lo Baro. Threshold  
PE Delay Bypass RPM Threshold  
Warm/Cold C/L Timer Threshold  
Hot/Warm C/L Timer Threshold  
Cold Closed Loop Timer  
Warm Closed Loop Timer  
Hot Closed Loop Timer  
High RPM Open Loop Enable RPM  
High RPM Open Loop Disable RPM  
Open Loop To Closed Loop Upper O2 Thresh  
Open Loop To Closed Loop Lower O2 Thresh  
Closed Loop To Open Loop Upper O2 Thresh  
Closed Loop To Open Loop Lower O2 Thresh  
BLM Cell RPM Boundary Hysteresis  
BLM Cell MAP Boundary Hysteresis  
BLM Learn Enable Coolant Temp Threshold  
Maximum BLM Value  
Minimum BLM Value

Base Pulse Constant  
Maximum Async Injector Pulse Width  
Minimum Async Injector Pulse Width  
Clear Flood %TPS Threshold  
DFCO Enable Coolant Temp.  
Decel Fuel C/O High RPM Enable  
Decel Fuel C/O High RPM Disable  
Decel Fuel C/O Low RPM Enable  
Decel Fuel C/O Low RPM Disable  
Decel Fuel C/O MAP Enable  
Decel Fuel C/O Disable MAP  
DFCO Disable MPH Threshold  
DFCO Enable MPH Threshold  
Decel Enlean Enable RPM Threshold  
Decel Enlean Enable Delta %TPS Threshold  
Decel Enlean Enable Delta MAP Threshold  
Decel Enlean Decay Rate  
Min. Inj. Pulse Width for Double Fire  
Max. Inj. Pulse Width for Single Fire  
Min RPM to Stay in Single Fire Mode  
Min RPM to Enable Single Fire Mode  
Stoichiometric Air Fuel Ratio  
Max Startup Temp for Crank AFR 2X Mod  
Max Startup Temp for Crank AFR Lean Bias  
Fuel Cutoff Vehicle Speed 1  
Fuel Cutoff Vehicle Speed 2  
Fuel Resume Vehicle Speed  
Fuel Cutoff RPM (not in P/N)  
Fuel Cutoff RPM (in P/N)  
A/C Disable %TPS Threshold  
A/C Disable Coolant Temp.  
A/C Re-Enable Coolant Temp.  
Low Fan On Coolant Temp.  
Low Fan Off Coolant Temp.  
High Fan On Coolant Temp.  
High Fan Off Coolant Temp.  
TCC Force Lock Vehicle Speed  
TCC Unlock Re-Enable Vehicle Speed  
TCC Unlock Negative Delta %TPS Threshold  
TCC Enable Speed, A/C Off, Low MAT  
TCC Enable Speed, A/C On, Low MAT  
TCC Disable Speed, A/C On, Low MAT  
TCC Disable Speed, A/C Off, Low MAT  
TCC Enable Speed, A/C Off, High MAT  
TCC Enable Speed, A/C On, High MAT  
TCC Disable Speed, A/C Off, High MAT  
TCC Disable Speed, A/C On, High MAT  
TCC High/Low MAT Threshold  
Shift Light Enable Cool. Temp. Threshold  
Shift Light On RPM Threshold  
Shift Light On Delay Time  
Shift Light Max On Time  
IAC Park Position  
Low Fan Anticipate IAC Step Adder  
High Fan Anticipate IAC Step Adder  
EGR Disable RPM  
EGR Enable RPM  
EGR Disable Vehicle Speed  
EGR Enable Vehicle Speed  
EGR Disable Coolant Temp.  
EGR Enable Coolant Temp.

## Tables

ECM Switch Table  
ECM Constant Table  
Main Spark Advance Vs. RPM Vs. Load  
Extended Main Spark Advance Vs. RPM Vs. Load  
Idle Spark Advance Vs. MAP  
Power Enrich Spark Advance Vs. RPM Vs. Load  
Base Cool. Adv. Correction Vs. Load Vs. Cool. Temp  
Idle Base Cool. Adv. Correction Vs. Cool. Temp.  
MAT Spark Adv. Correction Vs. MAT Vs. MAP  
TCC/Launch Mode Spark Correction Vs. RPM Vs. MAP  
EGR Spark Correction Vs RPM Vs Vacuum  
Knock Retard Attack Rate Vs. RPM (not in WOT)  
Knock Retard Attack Rate Vs. RPM (in WOT)  
Knock Retard Recovery Rate Vs. RPM (not in WOT)  
Knock Retard Recovery Rate Vs. RPM (in WOT)  
Max Knock Retard Vs. Vacuum (not in P.E.)  
Closed Loop Enable Cool Temp Vs Startup Cool Temp  
Volumetric Efficiency Vs RPM Vs MAP - Double Fire  
Volumetric Efficiency Vs. RPM Vs MAP - Single Fire  
Volumetric Efficiency Vs. RPM Vs. MAP, Ext. RPM  
Idle Volumetric Efficiency Vs. RPM Vs. MAP  
Delta MAP Accel Enrich Multiplier Vs. %TPS  
Accel Enrich Delta MAP Pulse Width Vs. Delta MAP  
Accel Enrich Delta TPS Pulse Width Vs Delta TPS  
Accel Enrich Delta TPS Factor Vs. Vacuum  
Accel Enrich Multiplier Vs. Speed  
Accel Enrich Temperature Correction Vs. Cool. Temp  
Accel Enrich MAT Correction Vs. MAT  
BLM Cell RPM Boundaries  
BLM Cell MAP Boundaries  
Injector PW Offset Vs. Battery Voltage Vs. Mode  
Injector PW Correction Vs. Battery Voltage  
BPW EGR Correction Vs. Flow Vs. Baro  
Power Enrich. AFR Vs. Coolant Temp.  
Power Enrich AFR Multiplier Vs. RPM  
Power Enrich Mode Enable TPS Vs. RPM  
Power Enrich Mode Delay Time Vs. Baro  
Power Enrich Delay Bypass TPS Vs. Baro  
Decel. Enlean Factor Vs. Coolant Temp.  
Decel Enlean Disable High TPS Threshold Vs. RPM  
Decel Enlean BPW % Reduction Vs. Delta %TPS  
Crank AFR Multiplier Vs. No. 2X Pulses  
Crank AFR Vs. Startup Coolant Temp.  
Crank AFR Lean Bias Vs. Crank RPM  
Crank AFR TPS Mult. Correction Vs. Startup Cool.  
Crank AFR Multiplier Vs. TPS  
Choke AFR Mod Vs. Startup Cool Vs Stage-Drive  
Eng Runtime for Choke AFR Mod Vs Start Cool-Drive  
Choke AFR Mod Vs. Startup Cool Vs Stage-P/N  
Eng Runtime for Choke AFR Mod Vs Startup Cool-P/N  
Cold AFR Correction Vs. MAP  
Cold AFR Vs Coolant Temp. (at Idle)  
Cold AFR Vs Coolant Temp.  
Target Idle RPM Vs. Coolant Temp.  
Target Idle Adder Vs. Coolant Temp (in P/N)  
Target Idle Kickdown Correct. Vs Startup Cool -Drv  
Target Idle Kickdown Correct. Vs Startup Cool -P/N  
Max Throttle Follower Bias Vs. RPM (in Drive)  
Max Throttle Follower Bias Vs. RPM (in P/N)  
IAC Position Temp. Offset Vs. Cool. Temp. (P/N)

IAC Position Temp. Offset Vs. Cool. Temp. (Drive)  
IAC Position Modifier Vs. Idle RPM Error (A/C off)  
IAC Position Modifier Vs. Idle RPM Error (A/C on)  
IAC Kickdown Steps Vs. Startup Cool Vs Eng Runtime  
Secondary Fuel Cutoff RPM Limits  
EGR Enable %TPS Threshold Vs. RPM  
EGR Disable %TPS Threshold Vs. RPM  
TCC Lower Load Limit Vs. Speed - Normal Mode  
TCC Upper Load Limit Vs. Speed - Normal Mode  
TCC Lower Load Limit Vs. Speed - Cruise Mode  
TCC Upper Load Limit Vs. Speed - Cruise Mode  
Shift Light Enable RPM Vs. Gear Vs. Cool Temp  
Shift Light RPM/MPH Ratio Vs. Gear