

C.A.T.S. Tuner ECM A1 Parameter List

(ECM Configuration File Version M)

ECM Switch Parameters

VATS Select (X = active)
Transmission Type (X = Manual)
Normally Open Fan 1 Request
Normally Open Fan 2 Request
Lean Cruise Option (X = active)
Fuel Mode (0 = AFR Mode X = BPW Mode)
Digital/EVRV EGR (X=Digital)
O2 Sensor Diagnostic (Error 12)
Vss Sensor Diagnostic (Error 24)
EGR Diagnostic (Error 32)
Cylinder Select Diagnostic (Error 41)
Knock Sensor Diagnostic (Error 43)
VATS Diagnostic (Error 46)
Fuel Pump Voltage Diagnostic (Error 54)

ECM Constants

Initial Spark Advance
Spark Reference Angle
Extended RPM Spark Advance Slope
Main Spark Extended RPM Limit
EGR Spark Advance Correction Bias
Launch Mode Knock Attack Rate Multiplier
Launch Mode Spark Advance Bias
Launch Mode Vehicle Speed Threshold
Launch Mode Positive Delta TPS Thresh.
Launch Mode Disable Neg. Delta TPS
Launch Mode Enable Delta MAP Thresh.
Launch Mode Disable Delta MAP Thresh.
Maximum Time in Launch Mode
Idle Spark Enable TPS Threshold
Idle Spark Enable Speed Threshold
Idle Spark Disable TPS Threshold
Idle Spark Disable Speed Threshold
Initial Time Out Spark Bias
Coolant Compensation Spark Advance Bias
TCC Locked Spark Retard Bias
Knock Retard Enable RPM Threshold
Knock Retard Enable Speed Threshold
Knock Retard Enable Coolant Temp. Thresh
Fan 1 Disable MPH Threshold
Fan 2 Disable MPH Threshold
Fan 1 On Time Delay
Fan 2 On Time Delay
IAC Steps Added for Fan 1 On
IAC Steps Added for Fan 2 On
Max Vehicle Speed for Idle
Idle RPM Offset for A/C On
Fuel Cutoff RPM
Fuel Resume RPM
Fuel Cutoff Vehicle Speed
Fuel Resume Vehicle Speed

Minimum RPM for Block Learn
Maximum RPM for Block Learn
Maximum RPM for Idle Block Learn
Minimum BLM Value
Maximum BLM Value
Minimum Integrator Value
Maximum Integrator Value
Stoichiometric AFR
Maximum Allowable AFR
Lean Cruise Mode Fuel AFR
Lean Cruise Mode Fuel Enable Speed
Lean Cruise Mode Fuel Disable Speed
Minimum Async Pulse Width
Maximum Async Pulse Width
Injector Flow Rate
Injector Flow Rate (Display)
Cold Closed Loop Enable Timer
Warm Closed Loop Enable Timer
Hot Closed Loop Enable Timer
Max Coolant Temp for Cold C/L Timer
Min Coolant Temp for Hot C/L Timer
Min. Closed Loop Coolant Temp.
Power Enrich TPS Enable Hysteresis
Power Enrich Enable MAP Threshold
Power Enrich Enable MAP Hysteresis
Accel Enrich Enable Delta TPS Threshold
Accel Enrich Disable Delta TPS Threshold
Fuel Delivery Mode
CCP Enable Coolant Temp Threshold
A.I.R. Enable Coolant Temp. Threshold
Minimum EGR Duty Cycle
EGR On VE Compensation Factor
EGR Enable Min Coolant Temp
EGR Disable MAP Threshold
EGR Enable MAP Threshold
TCC Lock Delay Time
TCC Positive Delta TPS Unlock Time
TCC Downshift Unlock Time
Unconditional TCC Lock Vehicle Speed
TCC Disable TPS Threshold, Low Gears
TCC Enable TPS Threshold, Low Gears
TCC Lock Enable MPH Thresh, Low Gears
TCC Lock Disable MPH Thresh, Low Gears
TCC Lock Enable MPH Thresh, Low Gr, A/C
TCC Lock Disable MPH Thresh, Low Gr, A/C
TCC Disable TPS Threshold, High Gear
TCC Enable TPS Threshold, High Gear
TCC Lock Enable MPH Thresh, High Gear
TCC Lock Disable MPH Thresh, High Gear
TCC Lock Enable MPH Thresh, Hi Gr, A/C
TCC Lock Disable MPH Thresh, Hi Gr, A/C
TCC Lock Enable Coolant Temp Threhold
TCC Lock Disable Coolant Temp Threhold
TCC Lock Prevent Delta TPS - Mid Gear
TCC Lock Prevent Delta TPS - High Gear
TCC Unlock Lower Delta TPS - Mid Gear
TCC Unlock Lower Delta TPS - High Gear
TCC Unlock Upper Delta TPS - Mid Gear
TCC Unlock Upper Delta TPS - High Gear
Number of Cylinders
Road Speed Constant
Instrument Panel VSS Pulse Divisor

Tables

ECM Switch Table
ECM Constant Table
Main Spark Advance Vs. MAP Vs. RPM
Base Cool. Adv. Correction Vs. Load Vs. Cool. Temp
Launch Mode Spark Advance Vs. RPM Vs. MAP
PE Spark Advance Correction Vs. AFR
EGR Spark Advance Correction Vs. % EGR
TCC Locked Spark Retard Vs. RPM Vs. MAP
Initial Time Out Spark Vs. Coolant Temp.
Time Out Spark Decay Vs. Startup Coolant Temp.
Knock Retard Attack Rate Vs. RPM
Knock Retard Attack Rate Vs. RPM in PE
Knock Retard Recovery Rate Vs. RPM
Knock Retard Recovery Rate Vs. RPM in PE
Maximum Knock Retard Vs. RPM
Maximum Knock Retard Vs. RPM in PE
Idle Spark Multiplier Vs. Coolant Temp.
Idle Spark Multiplier Vs. MAP
Idle Overspeed Spark Retard Vs. RPM Error
Idle Underspeed Spark Advance Vs. RPM Error
Main Volumetric Efficiency Vs. RPM Vs. MAP
Volumetric Efficiency Adder Vs. RPM
Idle Volumetric Efficiency Vs. RPM Vs. MAP
VE Correction For EGR On Vs. RPM Vs. Vacuum
VE Correction for EGR Vs. MAP (TCC Locked)
Base Pulse Constant Multiplier Vs. MAP/Baro Ratio
Base Pulse Constant Multiplier vs Baro
Base Pulse Constant Vs. Desired % EGR
Power Enrich Enable TPS Thresh. Vs. Coolant Temp.
Open Loop Idle AFR Correction Vs. MAP
Open Loop AFR Vs. Coolant Temp. Vs. Map
Closed Throttle Open Loop AFR Vs. Coolant Temp.
BPW Offset Vs. Battery Voltage
Low BPW Correction Vs. Pulse Width
Power Enrich Mode AFR Vs. RPM
Accel Enrich Factor Vs. AE Pulse
AE Async Pulse Multiplier Vs. Coolant Temp.
AE Async Pulse Multiplier Vs. Delta TPS
AE Async Pulse Multiplier Vs. Baro
AE Async Pulse Multiplier Vs. MAT
Crank Fuel PW Vs. Coolant Temp.
Crank PW Multiplier Vs. RPM
Crank PW Multiplier Vs. Reference Pulse
Crank PW Multiplier Vs. TPS
Crank PW Multiplier Vs. Baro
Desired Idle Speed Vs. Coolant Temp (In Drive)
Desired Idle Speed Vs. Coolant Temp (In P/N)
Max Throttle Follower Steps Vs. RPM
Max Throttle Follower Steps Vs. Vehicle Speed
Max Throttle Follower Steps Mult. Vs. Cool Temp
Throttle Follower Decay Rate Vs. Vehicle Speed
TCC Lower Load Limit Vs. MPH, Low Gear
TCC Upper Load Limit Vs. MPH, Low Gear
TCC Lower Load Limit Vs. MPH, High Gear
TCC Upper Load Limit Vs. MPH, High Gear
EGR Duty Cycle Vs. MAP Vs. RPM
EGR Duty Cycle Multiplier Vs. Coolant Temp.
Fan 1 Control Coolant Temperatures
Fan 2 Control Coolant Temperatures