C.A.T.S. Tuner ECM_6D Parameter List

(ECM Configuration File Version F)

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)

Highway Mode Fuel (X = enabled)

O2 Sensor Diagnostic (Error 13)

Vss Sensor Diagnostic (Error 24)

EGR Diagnostic (Error 32)

Knock Sensor Diagnostic (Error 43)

VATS Diagnostic (Error 46)

ECM Constants

Initial Spark Advance

Extended RPM Spark Advance Slope

Main Spark Extended RPM Limit

Launch Mode Knock Attack Rate Multiplier

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

Highway Mode Spark, Max MAP

Highway Mode Spark, Min Coolant Temp.

Highway Mode Spark Disable RPM Threshold

TCC Locked Spark Retard Bias

Knock Retard Enable RPM Threshold

Knock Retard Enable Speed Threshold

Knock Retard Enable Coolant Temp. Thresh

Fan 1 Low/High MPH Threshold

Fan 2 Low/High 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

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

Stochiometric AFR

Maximum Allowable AFR

Highway Mode Fuel AFR

Highway Mode Fuel Enable Speed

Highway 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

Minimum EGR Duty Cycle

EGR On VE Compensation Factor

EGR Enable Min Coolant Temp

EGR Disable MAP Threshold

EGR Enable MAP Threshold

Baro Update Max RPM Threshold

Baro Update Max. Pos. Delta %TPS

TCC Lock Delay 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

Number of Cylinders

Road Speed Constant

Instrument Panel VSS Pulse Divisor

Max RPM/MPH Ratio - 1st Gear

Min RPM/MPH Ratio - 1st Gear

Max RPM/MPH Ratio - 2nd Gear

Min RPM/MPH Ratio - 2nd Gear

Max RPM/MPH Ratio - 3rd Gear

Min RPM/MPH Ratio - 3rd Gear

Max RPM/MPH Ratio - 4th Gear

Min RPM/MPH Ratio - 4th Gear

Max RPM/MPH Ratio - 5th Gear Min RPM/MPH Ratio - 5th Gear

Min RPM for Shift Light On - 1st Gear

Min RPM for Shift Light On - 2nd Gear

Min RPM for Shift Light On - 3rd Gear

Min RPM for Shift Light On - 4th Gear

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

Highway Mode Spark Advance 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 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)

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 Coolant Temp Thresholds

Fan 2 Coolant Temp Thresholds

Max %TPS For Shift Light On Vs. RPM - 1st Gear

Max %TPS For Shift Light On Vs. RPM - 2nd Gear

Max %TPS For Shift Light On Vs. RPM - 3rd Gear

Max %TPS For Shift Light On Vs. RPM - 4th Gear