

C.A.T.S. Tuner ECM 24A Parameter List

(ECM Configuration File Version L)

ECM Switch Parameters

Sync. Mode Closed Throttle Fuel
Transmission Type (X = Manual)
2 Bar MAP Sensor Present
Knock Sensor Enable (X = Enabled)
EGR System Present (0 = Enabled)
EGR System Diagnostic Enable (Error 32)
MAP Sensor High Diag Enable (Error 33)
MAP Sensor Low Diag Enable (Error 34)
Knock Diagnostic Enable (Error 43)
O2 Sensor Lean Diag. Enable (Error 44)
O2 Sensor Rich Diag. Enable (Error 45)

ECM Constants

Spark Reference Angle
Cool. Comp. Spark Advance Bias
Extended Spark RPM Slope
EGR Spark Advance Correction Bias
Knock Retard Per Test Loop
Delay for Knock Retard Recovery
Max Allowable Knock Retard
Base Pulse Constant
Min. Async Injector Pulse Width
Max. Async Injector Pulse Width
Minimum Coolant Temp. For Closed Loop
Closed Loop Delay Timer
Sync Fuel Mode Enable P.W. Threshold
Sync Fuel Mode Disable P.W. Threshold
Cold Engine AFR Coolant Temp Threshold
Crank AFR Decay Scale Factor
Minimum BLM
Maximum BLM
Stoichiometric Air Fuel Ratio
Power Enrich. Enable RPM Threshold
Power Enrich. Enable Delta TPS Thresh.
Power Enrich. Mode AFR
Power Enrich Enable Primary TPS Thresh.
P. E. Enable Primary TPS Thresh. Hyster.
P. E. Enable Secondary %TPS Threshold
Power Enrich Enable Primary MAP Thresh.
Power Enrich Enable Secondary MAP Thresh
Power Enrich Enable Coolant Temp Thresh
Accel Enrich Enable Delta MAP Threshold
Accel. Enrich. Enable Delta TPS Theshold
TPS Thresh. for 2X Delta MAP A.E. Thresh
TPS Thresh for 4X Delta MAP/TPS AE Contr
Decel Enlean Enable Delta MAP Threshold
Decel Enlean Enable TPS Threshold
DFCO Enable RPM Limit
DFCO Disable RPM Limit
Decel Fuel Cutoff (DFCO) Rate
DFCO Enable Speed Threshold

DFCO Disable Speed Threshold
DFCO Enable %TPS Threshold
DFCO Enable MAP Threshold
DFCO Enable MAP Threshold Hysteresis
Clear Flood %TPS Threshold
Clear Flood AFR
Desired Idle RPM in Park/Neutral
Idle RPM Adder For A/C On
Small Idle RPM Error Retract - Drive
Small Idle RPM Error Retract Rate- Drive
Large Idle RPM Error Retract - Drive
Large Idle RPM Error Retract Rate- Drive
Small Idle RPM Error Extend - Drive
Small Idle RPM Error Extend Rate- Drive
Large Idle RPM Error Extend - Drive
Large Idle RPM Error Extend Rate- Drive
Small Idle RPM Error Retract - P/N
Small Idle RPM Error Retract Rate- P/N
Large Idle RPM Error Retract - P/N
Large Idle RPM Error Retract Rate- P/N
Small Idle RPM Error Extend - P/N
Small Idle RPM Error Extend Rate- P/N
Large Idle RPM Error Extend - P/N
Large Idle RPM Error Extend Rate- P/N
EGR Enable Coolant Temp. Threshold
EGR Enable %TPS Threshold
EGR Disable %TPS Threshold
EGR Enable Vacuum Threshold
EGR Disable Vacuum Threshold
EGR Diagnostic Upper Duty Cycle Limit
TCC Lock Speed Threshold
TCC Unlock Speed Threshold
Max. Positive Delta TPS For TCC Enabled
Max. Negative Delta TPS For TCC Enabled
TCC Low MPH Coast Load Limit
TCC High MPH Coast Load Limit
TCC Coast Load Limit High/Low MPH Thresh
TCC Coast Load Limit Hysteresis
TCC Enable Coolant Temp. Threshold
TCC Lockup Delay
A/C Disable %TPS Threshold
N/V Ratio for 5th Gear
N/V Ratio for 4th Gear
N/V Ratio for 3rd Gear
N/V Ratio for 2nd Gear
N/V Ratio for 1st Gear
RPM Tolerance for 5th Gear
RPM Tolerance for 4th Gear
RPM Tolerance for 3rd Gear
RPM Tolerance for 2nd Gear
RPM Tolerance for 1st Gear
Shift Light Delay Time (1st Gear)
Shift Light Delay Time (2nd - 5th Gear)
Shift Light Enable RPM (4th -> 5th)
Shift Light Disable MAP (4th -> 5th)
Shift Light Enable RPM (3rd -> 4th)
Shift Light Disable MAP (3rd -> 4th)
Shift Light Enable RPM (2nd -> 3rd)
Shift Light Disable MAP (2nd -> 3rd)
Shift Light Enable RPM (1st -> 2nd)
Shift Light Disable MAP (1st -> 2nd)

Tables

ECM Switch Table
ECM Constant Table
Main Spark Advance Vs. RPM Vs. MAP
Cool Compensation Spark Vs Vacuum
EGR Spark Advance Correction Vs. %EGR
Power Enrich Spark Advance Vs RPM
Cold Engine AFR Vs. Coolant Temp. Vs. MAP
Crank Air Fuel Ratio Vs. Coolant Temp.
Time-Out Run AFR Correction Vs. Coolant Temp.
%Volumetric Efficiency Vs. RPM Vs. MAP
%Vol. Efficiency Adder Vs. RPM
Accel Enrich. Delta MAP Factor Vs. Delta MAP
Accel Enrich. Delta TPS Factor Vs. Delta TPS
Accel. Enrich Temp. Correction Vs. Cool. Temp.
Decel Enlean Temp. Correction Vs. Cool. Temp.
Decel Enlean Delta MAP Factor Vs. Delta MAP
Decel Enlean. Delta TPS Factor Vs. Delta TPS
Base Pulse Constant Vs. EGR Duty Cycle
BPW Battery Voltage Correction Vs. Battery Voltage
Injector PW Correction Vs. Battery Voltage
Low Pulse Width Injector Offset Vs. BPW
MAT BPW Correction Factor Vs. MAT
Boost Base Pulse Width Multiplier Vs. MAP
Desired Idle RPM Vs. Battery Voltage
Fast Idle IAC Position Offset Vs. Coolant Temp.
Power Steering Stall IAC Position Offset Vs. Baro
%EGR Vs. Vacuum Vs. RPM
TCC Upper Load Limit Vs. MPH
TCC Lower Load Limit Vs. MPH
Knock Attack Rate Vs. RPM
Knock Retard Recovery Rate Vs. RPM
Shift Light Enable RPM Vs. %TPS (All Gears)
Fuel Cutoff Engine Speed Limits
Fuel Cutoff Vehicle Speed Limits