

C.A.T.S. Tuner PCM 63 Parameter List (ECM Configuration File Version A)

ECM Switch Parameters

Auto / Manual Transmission (X = manual)
VATS Select (X = Enabled)
Open Loop AFR Enable (X=Enabled)
EGR System Type (X=Back Pressure)
EGR System Control (X=Linear) 0=EVRV
A/C Clutch / Port Tune Control (X = A/C)
EGR Diagnostic (Error 32)
MAP Sensor High Diagnostic (Error 33)
MAP Sensor Low Diagnostic (Error 34)
EST Montior Diagnostic (Error 42)
ESC Diagnostic (Error 43)
Fuel Pump Relay Diagnostic (Error 54)
Trans High Temp Diagnostic (Error 58)
Trans Low Temp Diagnostic (Error 59)
3->2 Shift Quad Driver Diag (Error 66)
TCC Quad Driver Diagnostic (Error 67)
Force Motor Current Diag (Error 73)
Quad Driver #1 Shift B Diag (Error 81)
Quad Driver #1 Shift A Diag (Error 82)
Quad Driver #1 Diagnostic (Error 83)

ECM Constants

Initial Spark Advance
Main Spark Bias
Torque Management Max Spark Retard
Injector Flow Rate (Per Bank)
Cylinder Volume (per Cylinder)
Number Of Cylinders
Fuel Cutoff Eng Speed
Fuel Resume Eng Speed
Fuel Cutoff Speed
Fuel Resume Speed
Max Speed for Idle Fuel Table
Max Speed for Idle Spark Table
Max %TPS For Idle Fuel
RPM To Bypass WOT Delay
WOT Delay Period
EGR Off, (TPS)
EGR On, (TPS)
EGR Off, (Eng Speed)
EGR On, (Eng Speed)
EGR Off, (Low MAP Window)
EGR On, (Low MAP Window)
EGR Off, (High MAP Window)
EGR On, (High MAP Window)
Minimum MPH Tto Enable EGR
Normal Kick Down 1 -> 2 Shift (Speed)
Normal Kick Down 2 -> 3 Shift (Speed)
Normal Kick Down 3 -> 4 Shift (Speed)
Normal Kick Down 2 -> 1 Shift (Speed)
Normal Kick Down 3 -> 2 Shift (Speed)
Normal Kick Down 4 -> 3 Shift (Speed)
Normal Kick Down 1 -> 2 Shift (RPM)
Normal Kick Down 2 -> 3 Shift (RPM)

Normal Kick Down 3 -> 4 Shift (RPM)
Kick Down Lower Qualifier (TPS)
Kick Down Upper Qualifier (TPS)
RPM/VSS Ratio
Min. Coolant Temp. for Closed Loop
Cold O2 Closed Loop DelayTimer
Warm O2 Closed Loop DelayTimer
Hot O2 Closed Loop DelayTimer
Warm O2 Delay Cool Temp. Threshold
Hot O2 Delay Cool Temp. Threshold
Minimum BLM Value
Maximum BLM Value
Minimum Integrator Value
Maximum Integrator Value
Maximum RPM To Enable BLM
Min MAP for BLM Enable
Max MAP for BLM Enable
Async To Sync Fuel MAP Threshold
Async To Sync Fuel RPM Threshold
Sync To Async Fuel MAP Threshold
Sync To Async Fuel RPM Threshold
Async-->Sync BPW (Min)
Maximum Async BPW
Minimum Async BPW
Startup Fuel Decay Multiplier
Startup Fuel Decay Delay
Stall Saver % Target RPM Thresh, in P/N
Stall Svr %Target RPM Thresh, in P/N, AC
Stall Saver %Target RPM Thresh, in Drive
Stall Svr %Target RPM Thresh, in Dr, AC
Stall Saver %Diff Flow Thresh, in P/N
Stall Svr %Diff Flow Thresh, in P/N, AC
Stall Svr %Diff Flow Thresh, in Drive
Stall Svr %Diff Flow Thresh, in Drv, AC
Stall Saver Re-enable Delay, in P/N
Stall Saver Re-enable Delay, in Drive
A/C Clutch Disable RPM Threshold
A/C Clutch Re-enable RPM Threhold
Platform ID (MSW)
Platform ID (LSW)
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Main Spark Table, Open Throttle
Main Spark Table, Closed Throttle
Power Enrichment Spark
Cool Compensation Spark Vs. Load
EGR Spark Correction Vs RPM Vs Vacuum
Max Knock Retard Vs RPM (in WOT)
Max Knock Retard Vs. MAP
Main Fuel Table, Off Idle, %Vol. Eff.
Main Fuel Table, Near Idle, %Vol. Eff.
TPS Threshold Vs. RPM For WOT
TPS Threshold Vs. RPM For WOT (Fast)
Engine %EGR Vs RPM Vs Vacuum
Mean Rich/Lean O2 Voltage Threshold Vs Air Flow
Rich O2 Voltage Threshold Vs Air Flow
Lean O2 Voltage Threshold Vs Air Flow
Proportional Gain Vs RPM Vs MAP
Proportional Counts Vs Slow O2 Error
WOT AFR Vs. RPM
Accel. Enrichment Vs. Differential TPS

Diff. TPS Accel. Enrich. Coefficient Vs. Cool Temp
Diff. TPS Accel. Enrich. Multiplier Vs. Baro.
Accel. Enrichment Vs. Differential MAP
Diff MAP Accel. Enrich. Correction Vs. Cool. Temp.
Diff. MAP Accel. Enrich. Correction Vs. RPM
Accel. Enrich. Temperature Correction Vs Cool Temp
Accel. Enrich. Temperature Correction Mult. Vs MAT
Open Loop AFR Vs. Coolant Temp. Vs. Vacuum
AFR Reduction at Startup Vs. Cool. Temp. (Choke)
Startup Fuel Decay Rate Vs. Coolant Temp.
Startup Fuel Decay Rate Multiplier Vs. Air Flow
Crank BPW Vs. Coolant Temp.
Injector Offset PW vs Battery Voltage
BLM Cell RPM Boundaries
BLM Cell MAP Boundaries
Decel Enleanment Vs Differential MAP
Decel Enleanment Vs Differential TPS
Target Idle Vs. Cool. Temp. Pk/Neut - A/C Off
Target Idle Vs. Cool. Temp. Pk/Neut - A/C On
Target Idle Vs. Coolant Temp. (A/C Off)
Target Idle Vs. Coolant Temp. (A/C On)
Main Line Pressure Table, 0 - 64 MPH
Main Line Pressure Table, 64 - 128 MPH
Upshift/Downshift Speed Vs. TPS
Torque Converter Release MPH Vs. TPS
Torque Converter Engage MPH Vs. TPS
Line Press. Mod. Vs. Current Gear Vs. TPS
Down Shift Pressure Mod 2 -> 1 Vs. MPH
Down Shift Pressure Mod 3 -> 2 Vs. MPH
Down Shift Pressure Mod 4 -> 3 Vs. MPH
Line Pressure Mod In WOT Vs. RPM