

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

(ECM Configuration File Version L)

ECM Switch Parameters

Sync. Mode Closed Throttle Fuel
Transmission Type (X = Manual)
2 Bar MAP Sensor Present
Reference Pulse Diagnostic (Error 12)
O2 Sensor Diagnostic (Error 13)
ECT Sensor High Diagnostic (Error 14)
ECT Sensor Low Diagnostic (Error 15)
TPS Sensor High Diagnostic (Error 21)
TPS Sensor Low Diagnostic (Error 22)
MAT Sensor Low Diagnostic (Error 23)
Speed Sensor Diag. (Error 24)
MAT Sensor High Diagnostic (Error 25)
Wastegate Overboost Diag. (Error 31)
EGR Diagnostic (Error 32)
MAP Sensor High Diagnostic (Error 33)
MAP Sensor Low Diagnostic (Error 34)
IAC Diagnostic (Error 35)
EST Diagnostic (Error 42)
Knock Sensor Diagnostic (Error 43)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Rich Diagnostic (Error 45)
PROM Diagnostic (Error 51)
Cal Pack Diagnostic (Error 52)
Battery Voltage High Diag. (Error 53)
ADU Diagnostic (Error 55)

ECM Constants

Spark Reference Angle
Cool. Comp. Spark Advance Bias
Extended Spark RPM Slope
Main Spark Extended RPM Limit
EGR Spark Advance Correction Bias
Maximum Spark Advance
Maximum Spark 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
Rich/Lean O2 Sensor Threshold
Stoichiometric Air Fuel Ratio
Warm Closed Loop Fuel Timer
Cold Closed Loop Fuel Timer
Warm/Cold Closed Loop Timer Threshold
Power Enrich. Enable RPM Threshold

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 Delta TPS Thresh.
Power Enrich Enable Coolant Temp Thresh
Power Enrich. Mode AFR
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
DFCO Enable RPM Limit
DFCO Disable RPM Limit
Decel Fuel Cutoff (DFCO) Rate
Decel Enlean Enable TPS Threshold
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
Baro Update RPM Threshold
Desired Idle RPM in Park/Neutral
Idle RPM Adder For A/C On
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 Enable Coolant Temp. Threshold
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 Lockup Delay
Fuel Cutoff Engine Speed
Fuel Resume Engine Speed
Fuel Cutoff Speed
Fuel Resume Speed
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)
PROM ID

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.
Closed Throttle %Vol. Eff. Vs. RPM Vs. MAP
OpenThrottle %Vol. Eff. Vs. RPM Vs. MAP
%Vol. Efficiency Adder Vs. RPM
Rich O2 Voltage Threshold Vs. Air Flow
Lean O2 Voltage Threshold Vs. Air Flow
Mean Rich/Lean O2 Voltage Threshold Vs. Air Flow
Accel Enrich. Delta MAP Factor Vs. Delta MAP
Accel Enrich. Delta TPS Factor Vs. Delta TPS
Accel. Enrich Temp. Correction Vs. Cool. Temp.
Accel Enrich. RPM Correction Vs. RPM
Decel Enlean Temp. Correction Vs. Cool. Temp.
Decel Enlean Load Correction Factor Vs. MAP
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
MAT BPW Correction Factor Vs. MAT
Injector PW Correction Vs. Battery Voltage
Low Pulse Width Injector Offset Vs. BPW
Boost Base Pulse 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
Shift Light Enable RPM Vs. %TPS (All Gears)