

C.A.T.S. Tuner PCM 8C Parameter List

(ECM Configuration File Version H)

ECM Switch Parameters

VATS Select (x = Enabled)
Auto / Manual Transmission (x = manual)
Open Loop AFR Enable (X=Enabled)
EGR System Type (X=Back Pressure)
EGR System Control (X=Linear) 0=EVRV
O2 Sensor Diagnostic (Error 13)
ECT Sensor High Diag. (Error 14)
ECT Sensor Low Diag. (Error 15)
Vss PPM Diagnostic (Error 16)
TPS Sensor High Diagnostic (Error 21)
TPS Sensor Low Diagnostic (Error 22)
MAT Sensor Low Diagnostic (Error 23)
Speed Sensor Low (Error 24)
MAT Sensor High Diagnostic (Error 25)
Trans Pressure Manifold Diag. (Error 27)
Governor Diagnostic (Error 31)
EGR Diagnostic (Error 32)
MAP Sensor High Diagnostic (Error 33)
MAP Sensor Low Diagnostic (Error 34)
IAC Diagnostic (Error 35)
IAC TPS Kicker Diag (Error 36)
Brake On Diagnostic (Error 37)
Brake Off Diagnostic (Error 38)
Cam Sensor Diagnostic (Error 41)
EST Diagnostic (Error 42)
ESC Diagnostic (Error 43)
O2 Lean Diagnostic (Error 44)
VATS Diagnostic (Error 46)
EPROM Checksum Diagnostic (Error 51)
High System Voltage Diag. (Error 52)
High System Voltage Diag. (Error 53)
Fuel Pump Relay Diagnostic (Error 54)
High Transmission Temp. (Error 58)
Low Transmission Temp. (Error 59)
High Baro Pressure Diagnostic (Error 63)
Low Baro Pressure Diagnostic (Error 64)
3->2 Shift Quad Driver Diag (Error 66)
TCC Enable Quad Driver (Error 67)
Trans Slip Diagnostic (Error 68)
TCC On Diagnostic (Error 69)
Low Engine RPM Diagnostic (Error 71)
Output Speed Loss Diagnostic (Error 72)
Force Motor Current Diag (Error 73)
Trans Turbine Speed Diag (Error 74)
Low System Voltage Diag. (Error 75)
MNP Switch Diagnostic (Error 77)
Transmission Hot Diag. (Error 79)
Quad Driver 1 - Shift B (Error 81)
Quad Driver 1 - Shift A (Error 82)
Quad Driver #1 Diagnostic (Error 83)
Undefined Ratio Diag. (Error 85)
Low Ratio Diagnostic (Error 86)
High Ratio Diagnostic (Error 87)
Max Adapt Long Shift Diag. (Error 89)

ECM Constants

Fuel Cutoff RPM

Fuel Resume RPM
Fuel Cutoff Speed
Fuel Resume Speed
Fuel Cutoff RPM (Default Gear/MALF 16)
Fuel Resume RPM (Default Gear/MALF 16)
Number Of Cylinders
Cylinder Volume (per Cyl)
Injector Flow Rate
Main Spark Bias
Initial Spark Advance
Max Speed for Idle Fuel Table
Max Speed for Idle Spark Table
Max %TPS For Idle Fuel
Power Enrichment Delay Period
RPM To Bypass Power Enrich. Delay
Min. Coolant Temp. for Closed Loop
Maximum RPM To Enable BLM
EGR On, (Eng Speed)
EGR Off, (Eng Speed)
EGR On, (TPS)
EGR Off, (TPS)
EGR On, (Lo MAP Window)
EGR Off, (Lo MAP Window)
EGR On, (Hi MAP Window)
EGR Off, (Hi 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)
Minimum BLM Value
Maximum BLM Value
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Main Spark Table, Open Throttle
Main Spark Table, Closed Throttle
Cool Compensation Spark Vs. Load
Power Enrichment Spark
EGR Spark Correction Vs RPM Vs Vacuum
Max Knock Retard Vs RPM (in P. E.)
Max Knock Retard Vs. MAP
Main Fuel Table, Off Idle, %Vol. Eff.
Main Fuel Table, Near Idle, %Vol. Eff.
TPS Threshold Vs. RPM For Power Enrich.
TPS Threshold Vs. RPM For Power Enrich. (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
Power Enrichment AFR Vs. RPM
Accel. Enrichment Vs. Differential TPS
Accel. Enrichment Vs. Differential MAP
Decel Enleanment Vs Differential MAP
Decel Enleanment Vs Differential TPS
Open Loop AFR Vs. Coolant Temp. Vs. MAP

AFR Reduction at Startup Vs. Cool. Temp. (Choke)
Startup BPW Vs. Coolant Temp.
Injector Offset Vs. Battery Voltage
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
Line Press. Mod. Vs. Current Gear Vs. TPS
Line Pressure Mod In Power Enrich. Vs. RPM
Upshift/Downshift Speed Vs. TPS
Torque Converter Release MPH Vs. TPS
Torque Converter Engage MPH 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