

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

(ECM Configuration File Version W)

ECM Switch Parameters

VATS Select (X = Enabled)
Open Loop AFR Enable (X=Enabled)
Auto / Manual Transmission (X = Manual)
EGR System Type (X=Back Pressure)
EGR System Control (X=Linear, 0=EVRV)
Shift Solenoid A - 1st Gear (X=Enabled)
Shift Solenoid B - 1st Gear (X=Enabled)
Shift Solenoid A - 2nd Gear (X=Enabled)
Shift Solenoid B - 2nd Gear (X=Enabled)
Shift Solenoid A - 3rd Gear (X=Enabled)
Shift Solenoid B - 3rd Gear (X=Enabled)
Shift Solenoid A - 4th Gear (X=Enabled)
Shift Solenoid B - 4th Gear (X=Enabled)
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)
Vehicle Speed Diagnostic (Error 24)
MAT Sensor High Diagnostic (Error 25)
Trans Pressure Manifold Diag. (Error 27)
Governor Diagnostic (Error 31)
EGR Diagnostic (Error 32)
MAP High Diagnostic (Error 33)
MAP 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)
O2 Rich Diagnostic (Error 45)
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)
Trans High Temp Diagnostic (Error 58)
Trans Low Temp Diagnostic (Error 59)
High Baro Pressure Diagnostic (Error 63)
Low Baro Pressure Diagnostic (Error 64)
3->2 Shift Quad Driver Diag (Error 66)
TCC Quad Driver Diagnostic (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 Diag (Error 81)
Quad Driver #1 Shift A Diag (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

Initial Spark Advance
Main Spark Bias
Injector Flow Rate
Cylinder Volume
Number Of Cylinders
Fuel Cutoff, (Eng Speed)
Fuel Resume, (Eng Speed)
Fuel Cutoff (Speed)
Fuel Resume (Speed)
Max Speed For Idle Fuel
Max Speed For Idle Spark
Max TPS For Idle Fuel
RPM For WOT Delay Bypass
WOT Delay
EGR On, (TPS)
EGR Off, (TPS)
EGR On, (Eng Speed)
EGR Off, (Eng Speed)
EGR On, Low MAP
EGR Off, Low MAP
EGR Off, High MAP
EGR On, High MAP
Minimum MPH To Enable EGR
Minimum BLM Value
Maximum BLM Value
Minimum Integrator Value
Maximum Integrator Value
Maximum RPM for BLM Enable
Minimum MAP for BLM Enable
Maximum 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 To Sync Fuel Minimum BPW
Maximum Async BPW
Minimum Async BPW
Max %TPS for Throttle Follower (P/N)
Max %TPS for Throttle Follower (Drive)
Kick Down Upper Qualifier, (TPS)
Kick Down Lower Qualifier, (TPS)
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Main Spark Table, (Off Idle)
Main Spark Table, (Near Idle)
Coolant Temp. Compensation Spark
Power Enrichment Spark Advance Vs. RPM
EGR Spark Correction Vs RPM Vs Vacuum
Maximum Knock Retard Vs. RPM (in WOT)
Maximum Knock Retard Vs. MAP

Main Fuel Table, %Vol. Eff. (Off Idle)
Main Fuel Table, %Vol. Eff. (Near Idle)
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
Injector Offset PW Vs Battery Voltage
TPS Threshold Vs. RPM For WOT Mode
TPS Threshold Vs. RPM For WOT (Fast)
WOT AFR Vs. RPM
Pump Shot Vs. Differential TPS
Pump Shot Vs. Differential MAP
Open Loop Air Fuel Ratio Vs. Coolant Temp. Vs. MAP
Air Fuel Ratio At Startup (Choke)
Startup Base Pulse Width Vs. Coolant Temp.
Target Idle Vs. Cool. Temp. - Park/ Neut., A/C Off
Target Idle Vs. Cool. Temp. - Park/ Neut, A/C On
Target Idle Vs. Coolant Temp. - In Drive, A/C Off
Target Idle Vs. Coolant Temp. - In Drive, A/C On
Throttle Follower Gain Vs. Coolant Temp.
Throttle Follower Gain Vs. RPM
Main Line Pressure Table, 0 - 64 MPH
Main Line Pressure Table, 64 - 128 MPH
Filtered %TPS Delay Timer Vs. Vehicle Speed
Filtered %TPS Filter Coefficient Vs, Vehicle Speed
Min IAC Ext. Throttle Cracker %TPS Vs Cool Temp
Upshift/Downshift Table
Kickdown Mode Shift Speed Vs. Shift
Hot Engine Kickdown Mode Shift Speed Vs. Shift
Hot Trans Kickdown Mode Shift Speed Vs. Shift
Cold Kickdown Mode Shift Speed Modifier Vs. Shift
Kickdown Mode Shift RPM Vs. Shift
Hot Engine Kickdown Mode Shift RPM Vs. Shift
Hot Trans Kickdown Mode Shift RPM Vs. Shift
Cold Kickdown Mode Shift RPM Modifier Vs. Shift
Line Pressure 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
Torque Converter Engage MPH Vs. TPS
Torque Converter Release MPH Vs. TPS