

C.A.T.S. Tuner ECM 42 Parameter List

(ECM Configuration File Version BC)

ECM Switch Parameters

Burst Knock Retard Option (X=Enabled)
Open Loop Decel AFR Option (X=Enabled)
Manual/Auto Transmission (X=Manual)
TCC Unlock in DFCO (X = Enabled)
Err 12, No Ref. Pulses (X=Enabled)
Err 13, O2 Sensor Diag (X=Enabled)
Err 14, ECT Sensor High (X=Enabled)
Err 15, ECT Sensor Low (X=Enabled)
Err 21, TPS Sensor High (X=Enabled)
Err 22, TPS Sensor Low (X=Enabled)
Err 24, Vehicle Speed Diag (X=Enabled)
Err 32, EGR Diagnostic (X=Enabled)
Err 33, MAP Sensor High Diag (X=Enabled)
Err 34, MAP Sensor Low Diag (X=Enabled)
Err 35, IAC Diagnostic (X=Enabled)
Err 41, No DRP Diagnostic (X=Enabled)
Err 42, EST Diagnostic (X=Enabled)
Err 43, ESC Diagnostic (X=Enabled)
Err 44, O2 Sensor Lean Diag. (X=Enabled)
Err 45, O2 Sensor Rich Diag. (X=Enabled)
Err 51, EPROM Diag (X=Enabled)
Err 52, Cal Pack Missing (X=Enabled)
Err 54, Fuel Pump Relay Diag (X=Enabled)
Err 55, ADU Diagnostic (X=Enabled)

ECM Constants

Main Spark Bias
Cool. Temp. Compensation Spark Adv. Bias
Initial Spark Advance
Extended Spark RPM Slope
Max RPM for Extended RPM Spark
Spark Advance Added in ALDL Mode
Min. Speed To Enable Highway Mode Spark
Time Delay To Enable Highway Mode Spark
Knock Retard Enable Coolant Temp
Burst Knock Retard Enable MAP Threshold
Burst Knock Retard Enable TPS Threshold
Burst Knock Enable Diff. TPS Threshold
Burst Knock Retard Duration
Bypass Power Enrichment Delay
Power Enrichment Mode Delay
BPW Constant
Sync Inj. Mode Disable Pulse Width
Sync Inj. Mode Enable Pulse Width
Injector Pulse Width Offset
Min. Async Injector Pulse Width
Max. Async Injector Pulse Width
EGR On, (% TPS)
EGR Off, (% TPS)
EGR Off, (Speed)
EGR On, (Speed)
EGR Enable Coolant Temp Threshold
Low MAP EGR Off, (MAP)
Low MAP EGR On, (MAP)
Minimum MAP for BLM
Maximum MAP for BLM
Maximum RPM for BLM

Speed to Enable Open Loop Idle
% TPS To Enable Open Loop Idle
Maximum AFR At Open Loop Idle
Lean Idle AFR At Open Loop
Maximum AFR In Open Loop (Non-idle)
Warm Closed Loop Delay Timer
Cold Closed Loop Timer
Min. Coolant Temp. For Closed Loop Fuel
Open Loop Idle AFR Enable RPM Threshold
Open Loop Idle AFR Disable RPM Threshold
Open Loop Idle AFR Enable Delay
Open Loop Idle AFR Time Delay
Open Loop Decel Enable Speed
Open Loop Decel Enable RPM
Open Loop Decel Enable Cool. Temp.
TCC Enable Coolant Temp.
TCC Lock, Low Gears, High Speed
TCC Lock, Low Gears, Low Speed
TCC Lock, High Gears, High Speed
TCC Lock, High Gears, Low Speed
Kickdown Solenoid Enable MAP (Low MPH)
Kickdown Solenoid Enable MAP (High MPH)
Kickdown Solenoid Enable MAP Hysteresis
Kickdown Solenoid High/Low MPH Threshold
IAC Park Position
IAC Park or Neutral Offset
Idle RPM Adder - A/C On
Throttle Follower Scalar (in P/N)
Throttle Follower Scalar (in Drive)
Throttle Follower %TPS Bias
Max Throttle Follower IAC Steps
Throttle Follower Filter Coeff - Low Vss
Throttle Follower Filter Coeff-Mid Vss
Throttle Follower Filter Coeff - Hi Vss
Maximum BLM Value
Minimum BLM Value
Minimum Integrator Value
Maximum Integrator Value
Stoichiometric AFR
Number of Cylinders
DFCO Enable Speed
DFCO Disable Speed
DFCO Enable RPM
DFCO Disable RPM
DFCO Enable MAP
DFCO Disable MAP
Exit DFCO Fuel Pulse Width
Exit DFCO Fuel Pulse Width Delay
DFCO Max %TPS
DFCO Enable Coolant Temp.
Clear Flood AFR
AIR Divert Enable Coolant Temp
AIR Divert Disable MAP Threshold
Force Shift Light On RPM Threshold
Maximum AFR Value
Baro Update RPM Threshold
High MAP Diag (Error 33) MAP Threshold
High MAP Diag (Error 33) TPS Threshold
Low MAP Diag (Error 34) MAP Threshold
Low MAP Diag (Error 34) TPS Threshold
Low MAP Diag (Error 34) RPM Threshold
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Main Spark Table

Cool Compensation Spark Advance
Power Enrichment Spark (Deg)
Highway Mode Spark Advance Vs. Vacuum
Max Knock Retard Vs. RPM (in PE)
Max Knock Retard Vs. MAP
Burst Knock Retard Vs. Coolant Temp.
Main Fuel Table #1, % Volumetric Efficiency
Main Fuel Table #2, % Volumetric Efficiency Adder
% TPS Threshold Vs. RPM for PE Mode
Power Enrichment Air Fuel Ratio Vs. RPM
Accel. Enrichment Vs. Differential TPS
Accel. Enrichment Vs. Differential MAP
Accel Enrich TPS Filter Coefficient Vs. Cool Temp
Open Loop Air Fuel Ratio Vs. Coolant Temp.
Air Fuel Ratio at Startup Vs. Cool. Temp. (Choke)
Open Loop Air Fuel Ratio Vs. MAP
Choke Air Fuel Ratio Multiplier Vs. Coolant Temp.
Crank Air Fuel Ratio Vs. Coolant Temp.
BLM Cell RPM Boundaries
BLM Cell MAP Boundaries
Mean Rich/Lean O2 Voltage Threshold Vs Air Flow
Rich O2 Voltage Threshold Vs Air Flow
Lean O2 Voltage Threshold Vs Air Flow
IAC Steps Vs. Coolant Temp.
Target Idle RPM Vs. Coolant Temp.
EGR Spark Advance Vs. % EGR
% EGR Vs. Load Vs. RPM
EGR Correction Vs. Load Vs. EGR Duty Cycle
BPW Constant Vs. Air Flow Vs. EGR D.C.
TCC Load Upper Limit vs MPH, (Low Gears)
TCC Load Lower Limit Vs. MPH, (Low Gears)
TCC Load Upper Limit vs MPH, (High Gear)
TCC Load Lower Limit vs MPH, (High Gear)
Speed / RPM Ratio Limits Vs. Gear
Shift Light Enable RPM Vs. Gear