

C.A.T.S. Tuner ECM A0 Parameter List

(ECM Configuration File Version S)

ECM Switch Parameters

Knock Retard Option (X=Enabled)
Manual/Auto Transmission (X=Manual)
TCC Unlock in DFCCO (X=Enabled)
Reset Int. on BLM Change (X=Enabled)
Reset Integrator on A.E. (X=Enabled)
No Reference Pulses Diag. (Error 12)
O2 Sensor Diagnostic (Error 13)
CTS Sensor High Diagnostic (Error 14)
CTS Sensor Low Diagnostic (Error 15)
TPS Sensor High Diagnostic (Error 21)
TPS Sensor Low Diagnostic (Error 22)
Vss Sensor Diagnostic (Error 24)
EGR Diagnostic (Error 32)
MAP Sensor High Diagnostic (Error 33)
MAP Sensor Low Diagnostic (Error 34)
EST Monitor Diagnostic (Error 42)
ESC Diagnostic (Error 43)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Rich Diagnostic (Error 45)
Fuel Pump Relay Diagnostic (Error 54)

ECM Constants

Main Spark Bias
Base Cool. Adv. Correction Table Bias
Initial Spark Advance
Extended RPM Spark Advance Slope
Max RPM for Extended RPM Spark
Max Allowable Spark Advance
Max Allowable Spark Retard
Highway Spark Enable Speed
Spark Advance Added in ALDL Mode
Power Enrichment Mode Delay
Bypass Power Enrich. Delay RPM
Bypass Power Enrich. Delay TPS
BPW Constant
Warm Closed Loop Timer
Cold Closed Loop Timer
Minimum BLM Value
Maximum BLM Value
BLM RPM Boundary Hysteresis
BLM MAP Boundary Hysteresis
Block Learn Update Rate
Minimum Integrator Value
Maximum Integrator Value
Prop. Term Duration as Idle
Prop. Gain Flow Factor at Idle
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 Idle Enable TPS Threshold
Open Loop Idle Enable Speed Threshold
Maximum Open Loop Idle AFR
Stoichiometric AFR
DFCO Re-enable Speed Threshold
DFCO Disable Speed Threshold
DFCO Re-enable RPM Threshold
DFCO Disable RPM Threshold
DFCO Enable MAP
DFCO Disable MAP
Exit DFCO Fuel Pulse Width
Exit DFCO Fuel Pulse Width Delay
DFCO Max %TPS
DFCO Enable Coolant Temp.
IAC Park Position
Max IAC Motor Position
Idle RPM Adder - A/C On
Min. IAC Correction for A/C
Max. IAC Correction for A/C
IAC P/N Position Correction
IAC Correction for Battery Volt. Drop
Closed Throttle %TPS Threshold
Stall Saver Enable RPM Threshold
Stall Saver Disable RPM Threshold
Small Idle RPM Error IAC Retract Amount
Large Idle RPM Error IAC Retract Amount
Small Idle RPM Error IAC Extend Amount
Large Idle RPM Error IAC Extend Amount
Large Idle RPM Error Thresh. - Positive
Large Idle RPM Error Thresh. - Negative
Idle RPM Error Deadband
IAC Decay Delay - Low Speed
IAC Decay Delay - High Speed
IAC Kickdown Mode Enable Delay
DFCO Stall IAC Steps
IAC Kickdown Mode Correction
Max. Cold RPM in Kickdown Mode
Max Hot RPM in P/N
Throttle Follower Filter Coeff - Low Vss
Throttle Follower Filter Coeff - Mid Vss
Throttle Follower Filter Coeff - Hi Vss
Throt Follow Filter Coeff Low Vss Thresh
Throt Follow Filter Coeff Hi Vss Thresh
Throttle Follower Bias Min. %TPS
Throttle Follower Bias Scalar (in P/N)
Throttle Follower Bias Scalar (in Drive)
Max Throttle Follower IAC Steps
EGR Enable %TPS Threshold
EGR Enable Coolant Temp. Threshold
EGR Disable Speed Threshold
EGR Enable Speed Threshold
EGR Disable %TPS Threshold
TCC Lock Speed Threshold (Low Gears)
TCC Unlock Speed Threshold (Low Gears)
TCC Lock Speed Threshold (High Gears)
TCC Unlock Speed Threshold (High Gears)
TCC Unlock Prevent Speed
Shift Light On RPM
Number of Cylinders
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Main Spark Vs. MAP Vs. RPM
Base Cool. Adv. Correction Vs. Load Vs. Cool. Temp
Power Enrichment Spark Adder Vs. RPM
EGR Spark Advance Correction Vs. % EGR
Highway Mode Spark Advance Vs. Vacuum
Knock Attack Rate Vs. RPM
Knock Recovery Rate Vs. RPM
Max. Knock Retard Vs. RPM (in P.E.)
Max. Knock Retard Vs. MAP
Volumetric Efficiency Vs. RPM Vs. MAP
Volumetric Efficiency Adder Vs. RPM
BPW Constant Vs. Air Flow Vs. %EGR
BLM Cell RPM Boundaries
BLM Cell MAP Boundaries
O2 Sensor Voltage Thresholds Vs. Air Flow
Proportional Count Vs. Slow O2 Error Count
Prop. Term Duration Vs. Slow O2 Error Count
Prop. Term Duration Offset Vs. Air Flow
Prop. Gain Flow Factor Vs. Air Flow
Pulse Width Correction Vs. Battery Voltage
Power Enrich. Enable TPS Threreshold Vs. RPM
Power Enrich. Air Fuel Ratio Vs. RPM
Accel. Enrich. PW Vs. Differential %TPS
Accel. Enrich. PW Adder Vs. Differential MAP
Accel. Enrich. Correction Factor Vs. Coolant Temp.
Open Loop AFR Vs. Coolant Temp.
Air Fuel Ratio at Startup Vs. Cool. Temp. (Choke)
Cold Engine Air Fuel Ratio Vs. MAP
Choke AFR Decay Mult. Vs. Coolant Temp.
Crank Air Fuel Ratio Vs. Coolant Temp.
IAC Steps Vs. Coolant Temp.
Stall Saver IAC Steps Vs. Baro
Target Idle RPM Vs. Coolant Temp.
% EGR Vs. Load Vs. RPM
EGR Correction Vs. Load Vs. EGR D.C.
TCC Load Limit Vs Vss, Low Gears, Upper Limit
TCC Load Limit Vs. Vss, Low Gears, Lower Limit
TCC Load Limit Vs. Vss, High Gears, Lower Limit
TCC Load Limit Vs. Vss, High Gears, Upper Limit
Shift Light RPM/MPH Ratio Limits Vs. Gear
Shift Light Enable RPM Vs. Gear