

C.A.T.S. Tuner ECM 3F Parameter List

(ECM Configuration File Version F)

ECM Switch Parameters

Manual/Auto Transmission (X=Manual)
Knock Retard Option (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)
Vehicle Speed Diag. (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)
EPROM Diagnostic (Error 51)
Cal Pack Diagnostic (Error 52)
Fuel Pump Relay Diagnostic (Error 54)
ADU Diagnostic (Error 55)

ECM Constants

Main Spark Bias
Base Cool. Adv. Correction Table Bias
Initial Spark Advance
Extended RPM Spark RPM Slope
Max RPM for Extended RPM Spark
Max Allowable Spark Advance
Max Allowable Spark Retard
Power Enrichment Mode Delay
Bypass Power Enrich. Delay RPM
BPW Constant
Target Idle RPM, A/C Off
Target Idle RPM, A/C On
IAC Motor Park Position
Max IAC Motor Position
Closed Throttle %TPS 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
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

Stall Saver Enable RPM Threshold
Stall Saver Disable RPM Threshold
Number of Cylinders
Minimum BLM Value
Maximum BLM Value
BLM RPM Boundary Hysteresis
BLM MAP Boundary Hysteresis
Block Learn Update Rate
Minimum Integrator Value
Maximum Integrator Value
Stoichiometric AFR
Cold Closed Loop Timer
Warm Closed Loop Timer
Min. Coolant Temp. For Closed Loop Fuel
Open Loop Idle Enable TPS Threshold
Open Loop Idle Disable TPS Threshold
Open Loop Idle Enable RPM Threshold
Open Loop Idle Disable RPM Threshold
Open Loop Idle Enable Speed Threshold
Open Loop Idle Disable Speed Threshold
Maximum Open Loop Idle AFR
DFCO Disable RPM Threshold
DFCO Re-enable RPM Threshold
DFCO Disable Speed Threshold
DFCO Re-enable Speed Threshold
EGR Enable Coolant Temp. Threshold
EGR Disable Coolant Temp. Threshold
EGR Enable %TPS Threshold
EGR Disable %TPS Threshold
EGR Enable Speed Threshold
EGR Disable Speed Threshold
TCC Unlock Prevent Speed
TCC Lock Speed, Low Gears
TCC Unlock Speed, Low Gears
TCC Lock Speed, High Gear
TCC Unlock Speed, High Gear
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 Vs. Baro.
EGR Spark Advance Vs. % EGR
Max. Knock Retard Vs. RPM (in P.E.)
Max. Knock Retard Vs. MAP
Knock Retard Attack Rate Vs. RPM
Knock Retard Recovery Rate Vs. RPM
Volumetric Efficiency Vs. RPM Vs. MAP
Volumetric Efficiency Adder Vs. RPM
Power Enrich. Enable TPS Threshold 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)
Open Loop Air Fuel Ratio Vs. MAP
Choke Air Fuel Ratio Mult. Vs. Coolant Temp.

Crank Air Fuel Ratio Vs. Coolant Temp.
BLM Cell RPM Boundaries
BLM Cell MAP Boundaries
BPW Constant Vs. Air Flow Vs. %EGR
Pulse Width Correction Vs. Battery Voltage
Proportional Fuel Value Vs. Slow o2 Error
Proportional Term Fuel Dur. Vs. o2 Error
Proportional Dur Offset Fuel Vs. Air Flow
Proportional Gain Fuel Flow Factor Vs. Air Flow
Integrator Delay Vs. Air Flow
Integrator Delay Mult Vs. Slow o2 Error
Slow o2 Filter Time Constant Vs. Air Flow
O2 Sensor Voltage Thresholds Vs. Air Flow
O2 Sensor Voltage Bias Vs. Deg C
% EGR Vs. Load Vs. RPM
EGR % Correction Vs. Load Vs. EGR Duty Cycle
IAC Steps Vs. Coolant Temp.
Stall Saver IAC Steps Vs. Baro
TCC Load Limit vs Vss, Low Gears, Upper Limit
TCC Load Limit Vs. Vss, Low Gears, Lower Limit
TCC Load Limit Vs. Vss, Hi Gears, Upper Limit
TCC Load Limit Vs. Vss, Hi Gears, Lower Limit