

# C.A.T.S. Tuner ECM 98 Parameter List

## (ECM Configuration File Version A)

### ECM Switch Parameters

Knock Retard Option (X=Enabled)  
Manual/Auto Transmission (X=Manual)  
Unlock TCC in DFCO (X = Enabled)  
No Reference Pulse Diag. (Error 12)  
O2 Sensor Open Diagnostic (Error 13)  
ECT Sensor High Diagnostic (Error 14)  
ECT Sensor Low Diagnostic (Error 15)  
TPS Sensor High Diagnostic (Error 21)  
TPS Sensor Low Diagnostic (Error 22)  
Vehicle Speed Sensor Diag. (Error 24)  
EGR Diagnostic (Error 32)  
MAP Sensor High Diagnostic (Error 33)  
MAP Sensor Low Diagnostic (Error 34)  
EST Monitor Diagnostic (Error 42)  
Knock Sensor Diagnostic (Error 43)  
O2 Sensor Lean Diagnostic (Error 44)  
O2 Sensor Rich Diagnostic (Error 45)  
PROM Diagnostic (Error 51)  
CAL Pack Missing (Error 52)  
FPR Malfunction (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  
Power Enrich. Delay Bypass RPM  
BPW Constant  
Target Idle RPM, A/C Off  
Target Idle RPM, A/C On  
IAC Motor Park Position  
Max IAC Motor Position  
Minimum BLM Value  
Maximum BLM Value  
BLM RPM Boundary Hysteresis  
BLM MAP Boundary Hysteresis  
Minimum Integrator Value  
Maximum Integrator Value  
EGR Enable 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 Advance Vs. MAP Vs. RPM  
Base Cool. Adv. Correction Vs. Load Vs. Cool. Temp  
Power Enrichment Spark Adder Vs. RPM Vs. Baro.  
EGR Spark Advance Correction Vs. % EGR  
Start Up Spark Advance Vs. Coolant Temp.  
Start Up Spark Decay Rate Vs. Coolant Temp.  
Start Up Spark Decay Delay Vs. Coolant Temp.  
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  
BPW Constant Vs. Air Flow Vs. %EGR  
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.  
Open Loop Air Fuel Ratio Vs. MAP  
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  
Air Fuel Ratio at Startup Vs. Cool. Temp. (Choke)  
Choke Air Fuel Ratio Mult. Vs. Coolant Temp.  
Startup Enrichment Decay Rate Vs. Cool. Temp.  
Crank Air Fuel Ratio Vs. Coolant Temp.  
% EGR Vs. Load Vs. RPM  
EGR % Correction Vs. Load Vs. EGR Duty Cycle  
IAC Steps Vs. Coolant Temp.  
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)