

# C.A.T.S. Tuner ECM 4D Parameter List

## (ECM Configuration File Version B)

### ECM Switch Parameters

VATS Select  
Shift Light (Man) = X, TCC (Auto) = O  
No Reference Pulses (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)  
Vss Diagnostic (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)  
EPROM Error Diagnostic (Error 51)  
Cal Pack Missing Diagnostic (Error 52)  
VATS Diagnostic (Error 53)  
Fuel Pump Voltage Diagnostic (Error 54)  
ADU Diagnostic (Error 55)

### ECM Constants

Initial Spark Advance  
Main Spark Bias  
Main Spark Extended RPM Limit ( > 3600)  
Extended Spark RPM Slope  
Cool Compensation Spark Table Bias  
Highway Mode Spark Adv. Load Threshold  
Highway Mode Spark Adv. Speed Threshold  
Maximum Spark Advance  
Number of Cylinders  
BPW Constant  
Fuel Cutoff Speed  
Fuel Resume Speed  
EGR Off, (Speed)  
EGR On, (Speed)  
EGR Off, (Low MAP Threshold)  
EGR On, (Low MAP Threshold)  
TCC Lock, (Low Gears)  
TCC Unlock, (Low Gears)  
TCC Lock, (Hi Gears)  
TCC Unlock, (Hi Gears)  
IAC Park Postiton  
Target Idle (A/C Off)  
Target Idle (A/C On)  
Maximum Cold Engine Speed  
Maximum Hot Engine Speed  
Minimum Coolant Temp. For Closed Loop  
Warm Closed Loop Delay Timer  
Cold Closed Loop Timer

Maximum RPM For BLM Enable  
Minimum MAP for BLM Enable  
Maximum MAP for BLM Enable  
Minimum BLM  
Maximum BLM  
BLM RPM Boundary Hysteresis  
BLM MAP Boundary Hysteresis  
Minimum Integrator Value  
Maximum Integrator Value  
PROM ID

## **Tables**

ECM Switch Table  
ECM Constant Table  
Main Spark Advance Vs. RPM Vs. Load  
Cool Compensation Spark Advance Vs Load  
Power Enrichment Spark Correction Vs. Load  
Highway Mode Spark Advance Vs. Vacuum  
TCC Locked Spark Advance Correction Vs. Vacuum  
Knock Attack Rate Vs. Vacuum (Not In P.E.)  
Knock Recovery Rate Vs. Vacuum (Not In P.E.)  
Max Knock Retard Vs. MAP  
Knock Attack Rate Vs. RPM (In P.E.)  
Knock Recovery Rate Vs. RPM (In P.E.)  
Max Knock Retard Vs. RPM (in P.E.)  
Main Fuel Table #1, %Volumetric. Efficiency  
Main Fuel Table #2, %Volumetric. Eff. Adder  
BPW Constant Vs Vacuum (EGR On)  
BLM Cell RPM Boundaries  
BLM Cell MAP Boundaries  
TPS Threshold Vs. RPM for P.E. Mode  
Power Enrichment AFR Vs. RPM  
Accel. Enrichment Vs. Differential TPS  
Accel. Enrichment Vs. Differential MAP  
Accel. Enrich Correction Factor Vs. Coolant Temp.  
Open Loop AFR Correction Vs. MAP  
Open Loop Air Fuel Ratio Vs. Coolant Temp.  
Air Fuel Ratio at Startup Vs. Cool. Temp. (Choke)  
Choke Air Fuel Ratio Multiplier Vs. Coolant Temp.  
Crank Air Fuel Ratio Vs. Coolant Temp.  
IAC Steps Vs. Coolant Temperature  
TCC Load Limits Vs MPH (Low Gears)  
TCC Load Limits Vs. MPH (High Gears)