

# C.A.T.S. Tuner ECM 62 Parameter List

## (ECM Configuration File Version X)

### ECM Switch Parameters

VATS Select  
Auto/Manual Transmission (X=Manual)  
No Ref. Pulses Diagnostic (Error 12)  
O2 Sensor 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)  
MAT Sensor Low Diagnostic (Error 23)  
Vss Diagnostic (Error 24)  
MAT Sensor High Diagnostic (Error 25)  
EGR Diagnostic (Error 32)  
MAP Sensor High Diagnostic (Error 33)  
MAP Sensor Low Diagnostic (Error 34)  
EST Monitor Diagnostic (Error 42)  
Knock Diagnostic (Error 43)  
O2 Sensor Lean Diagnostic (Error 44)  
O2 Sensor Rich Diagnostic (Error 45)  
PROM Diagnostic (Error 51)  
Missing Cal-Pack Diagnostic (Error 52)  
VATS Diagnostic (Error 53)  
Fuel Pump Voltage Diagnostic (Error 54)  
ADU Error Diagnostic (Error 55)

### ECM Constants

Initial Spark Advance  
Main Spark Bias  
TCC Locked Spark Correction Bias  
Cool Compensation Spark Table Bias  
Main Spark Extended RPM Limit  
Extended RPM Spark Advance Slope  
Highway Mode Spark Adv. Load Threshold  
Highway Mode Spark Adv. Speed Threshold  
Launch Mode Spark Speed Threshold  
Launch Mode Spark Enable Delta MAP  
Launch Mode Spark Disable Delta MAP  
Base Pulse Constant  
Fuel Cutoff Speed  
Fuel Resume Speed  
EGR Off, (TPS)  
EGR On, (TPS)  
EGR Off, (Speed)  
EGR On, (Speed)  
EGR Off, (Low MAP)  
EGR On, (Low MAP)  
TCC Lock Speed, (Low Gears)  
TCC Unlock Speed, (Low Gears)  
TCC Lock Speed, (Hi Gears)  
TCC Unlock Speed, (Hi Gears)  
TCC Coast Load Limit, Low Speed  
TCC Coast Load Limit, High Speed

TCC Coast Load Limit Hysteresis  
TCC Coast Load Low/High Speed Threshold  
Cold Closed Loop Timer  
Minimum Coolant Temp. For Closed Loop  
Warm Closed Loop Delay Timer  
IAC Park Postiton  
Idle Open Loop AFR Adder  
Maximum Vehicle Speed for Idle  
Maximum %TPS for Idle  
Maximum RPM For BLM Enable  
Minimum MAP for BLM Enable  
Maximum MAP for BLM Enable  
Maximum BLM  
Minimum BLM  
Maximum Integrator  
Minimum Integrator  
Highway Mode Fuel Enable Speed Threshold  
CCP Enable Vehicle Speed  
CCP Disable Vehicle Speed  
CCP Enable TPS Threshold  
CCP Disable TPS Threshold  
AIR Divert Disable Coolant Temp.  
AIR Divert Enable MPH Threhold  
AIR Disable Time in Power Enrich Mode  
AIR Disable Rich O2 Voltage  
AIR Disable Lean O2 Voltage  
Rich/Lean AIR Disable Delay Time  
AIR Disable MAP  
P.E. Mode AFR Coolant Temp. Correction  
P.E. AFR Temp. Correction Temp. Thresh.  
DFCO Enable Coolant Temp. Threshold  
DFCO Enable RPM Threshold  
DFCO Disable RPM Threshold  
DFCO Enable Vehicle Speed Threshold  
DFCO Disable Vehicle Speed Threshold  
DFCO Disable RPM Reduction  
DFCO Enable Delta MAP Threshold  
DFCO Disable %TPS Threshold  
DFCO Enable MAP Threshold  
DFCO Disable MAP Threshold  
Min Async Injector Pulse Width  
Max Async Injector Pulse Width  
Async to Sync Inj. Pulse Width Threshold  
Sync to Async Inj. Pulse Width Threshold  
PROM ID

## **Tables**

ECM Switch Table  
ECM Constant Table  
Main Spark Vs. RPM Vs. Load  
Cool Compensation Spark Vs Vacuum  
Power Ehrichment Spark Vs. Load  
Highway Mode Spark Advance Vs. Vacuum  
TCC Locked Spark Correction Vs. RPM Vs. Vacuum  
EGR On Spark Advance Correction Vs. Vacuum  
Launch Mode Spark Advance Vs. MAP  
Launch Mode Spark Advance Multiplier Vs. MAT  
Knock Attack Rate Vs. RPM (in Power Enrich.)  
Knock Attack Rate Vs. Vacuum (not in P. E.)  
Knock Recovery Rate Vs. RPM (in Power Enrich.)

Knock Recovery Rate Vs. Vacuum (not in P. E.)  
Max Knock Retard Vs. RPM (in P.E.)  
Max Knock Retard Vs. Vacuum (not in P.E.)  
Max Knock Retard Multiplier Vs. MAT  
Main Fuel Table #1, %Volumetric Eff.  
Main Fuel Table #2, %Volumetric. Eff. Adder  
TPS Threshold Vs. RPM for P.E. Mode  
Power Enrich. Air Fuel Ratio Vs. RPM  
Accel. Enrichment Vs. Differential TPS  
Accel. Enrichment Vs. Differential MAP  
Accel. Enrich Correction Factor Vs. Coolant Temp.  
Base Pulse Constant Vs. Vacuum (EGR On)  
Base Pulse Constant Multiplier Vs. MAT  
Open Loop AFR Vs. Coolant Temp.  
Open Loop AFR Vs. Vacuum  
Air Fuel Ratio at Startup Vs. Coolant Temp (Choke)  
Startup AFR Decay Multiplier Vs. Coolant Temp.  
Crank Air Fuel Ratio Vs. Coolant Temp.  
Crank AFR Multiplier Vs. Vacuum  
Rich O2 Voltage Threshold Vs. Air Flow  
Lean O2 Voltage Threshold Vs. Air Flow  
Unfiltered O2 Mean Rich/Lean Thresh Vs. Air Flow  
IAC Steps Vs. Coolant Temperature  
Idle RPM Vs. Coolant Temp. (In Drive)  
Idle RPM Vs. Coolant Temp. (In Park/Neut.)  
TCC Upper Load Limit Vs. MPH (Low Gears)  
TCC Upper Load Limit Vs. MPH (High Gears)  
BLM Cell RPM Boundaries  
BLM Cell MAP Boundaries