

# C.A.T.S. Tuner ECM 31B Parameter List

## (ECM Configuration File Version B)

### ECM Switch Parameters

Vss Sensor Failure, Error 24 (X=Enabled)  
EGR Vacuum, Error 32 (X=Enabled)  
MAF Sensor High, Error 33 (X=Enabled)  
MAF Sensor Low, Error 34 (X=Enabled)  
ESC Failure, Error 43 (X=Enabled)

### ECM Constants

Main Spark Bias  
Coolant Compensation Spark Bias  
MAT Spark Advance Correction Table Bias  
Injector Flow Rate  
Highway Mode Air Fuel Ratio  
Minimum BLM  
Maximum BLM  
Closed Loop Enable Cool. Temp Threshold  
Fuel Cutoff RPM  
Fuel Resume RPM  
Fuel Cutoff Speed  
Fuel Resume Speed  
Fan On Coolant Temp.  
Fan Off Coolant Temp.  
Max Speed for Fan On  
Max TPS for Fan On  
EGR On, %TPS  
EGR Off, %TPS  
TCC Lock Speed - 3rd Gear  
TCC Unlock Speed - 3rd Gear  
TCC Lock Speed - 4th Gear  
TCC Unlock Speed - 4th Gear  
Minimum TPS For TCC, 3rd Gear  
Minimum TPS For TCC, 4th Gear  
PROM ID

### Tables

ECM Switch Table  
ECM Constant Table  
Main Spark Table  
Cool Compensation Spark Advance  
MAT Spark Advance Correction Vs. MAT Vs. Load  
Start Up Spark Advance Vs. Coolant Temp.  
Knock Retard Attack Rate Vs. RPM (Deg/msec)  
Knock Retard Recovery Rate Vs. RPM (%/sec)  
Power Enrichment Spark Vs RPM Vs Load  
Highway Mode Spark Advance Vs. Load  
Injector Offset Vs Battery Voltage  
Cold Engine %AFR Change Vs Load  
Cold Engine AFR Mult. Vs. Coolant Temp.  
Crank Pulse Width Vs. Coolant Temp.

Startup %Change to AFR Vs. Coolant Temp.  
TPS For Power Enrichment  
Power Enrichment AFR Vs. Coolant Temp.  
Power Enrichment Fuel Trim Vs. RPM  
Power Enrichment Fuel Trim Vs. %TPS  
Power Enrich Fuel Air Multiplier Vs. Time in PE  
Max Power Enrich PW Vs. Coolant Temp.  
Filter Coefficient Vs. Air Flow  
Target Idle RPM Vs. Coolant Temp (In Drive)  
Target Idle RPM Vs. Coolant Temp. (In Neutral)  
IAC Park Down Steps Vs. Coolant Temp.  
EGR % Duty Cycle Vs. Load Vs. RPM  
Maximum Air Flow Vs. RPM  
Mass Air Flow Table #1  
Mass Air Flow Table #2  
Mass Air Flow Table #3  
Mass Air Flow Table #4  
Mass Air Flow Table #5  
Mass Air Flow Table #6  
MAF Correction Factor Vs. Air Flow Vs MAT  
TCC Load Limit Vs. MPH (Lock 3rd Gear)  
TCC Load Limit Vs. MPH (Unlock 3rd Gear)  
TCC Load Limit Vs. MPH (Lock 4 th Gear)  
TCC Load Limit Vs. MPH (Unlock 4 th Gear)