

# C.A.T.S. Tuner ECM 24 Parameter List

## (ECM Configuration File Version I)

### ECM Switch Parameters

Sync. Mode Closed Throttle Fuel  
Transmission Type (X = Manual)  
2 Bar MAP Sensor Present  
Speed Sensor Diag. (Error 24)  
Wastegate Overboost Diag. (Error 31)  
EGR Diagnostic (Error 32)  
O2 Sensor Lean Diagnostic (Error 44)  
Knock Sensor Diagnostic (Error 43)  
O2 Sensor Rich Diagnostic (Error 45)

### ECM Constants

Spark Reference Angle  
Cool. Comp. Spark Advance Bias  
Extended Spark RPM Slope  
EGR Spark Advance Correction Bias  
Base Pulse Constant  
Min. Async Injector Pulse Width  
Max. Async Injector Pulse Width  
Minimum Coolant Temp. For Closed Loop  
Closed Loop Delay Timer  
Sync Fuel Mode Enable P.W. Threshold  
Sync Fuel Mode Disable P.W. Threshold  
Cold Engine AFR Coolant Temp Threshold  
Crank AFR Decay Scale Factor  
Minimum BLM  
Maximum BLM  
Stoichiometric Air Fuel Ratio  
Power Enrich. Enable RPM Threshold  
Power Enrich Enable Primary TPS Thresh.  
P. E. Enable Primary TPS Thresh. Hyster.  
P. E. Enable Secondary %TPS Threshold  
Power Enrich Enable Primary MAP Thresh.  
Power Enrich Enable Secondary MAP Thresh  
Power Enrich. Enable Delta TPS Thresh.  
Power Enrich Enable Coolant Temp Thresh  
Power Enrich. Mode AFR  
Accel Enrich Enable Delta MAP Threshold  
Accel. Enrich. Enable Delta TPS Theshold  
TPS Thresh. for 2X Delta MAP A.E. Thresh  
TPS Thresh for 4X Delta MAP/TPS AE Contr  
Decel Enlean Enable Delta MAP Threshold  
DFCO Enable RPM Limit  
DFCO Disable RPM Limit  
Decel Fuel Cutoff (DFCO) Rate  
Decel Enlean Enable TPS Threshold  
DFCO Enable Speed Threshold  
DFCO Disable Speed Threshold  
DFCO Enable %TPS Threshold  
DFCO Enable MAP Threshold  
DFCO Enable MAP Threshold Hysteresis  
Clear Flood %TPS Threshold  
Clear Flood AFR  
Desired Idle RPM in Park/Neutral  
Idle RPM Adder For A/C On

EGR Enable Coolant Temp. Threshold  
EGR Enable %TPS Threshold  
EGR Disable %TPS Threshold  
EGR Enable Vacuum Threshold  
EGR Disable Vacuum Threshold  
EGR Diagnostic Upper Duty Cycle Limit  
TCC Lock Speed Threshold  
TCC Unlock Speed Threshold  
Max. Positive Delta TPS For TCC Enabled  
Max. Negative Delta TPS For TCC Enabled  
TCC Enable Coolant Temp. Threshold  
TCC Low MPH Coast Load Limit  
TCC High MPH Coast Load Limit  
TCC Coast Load Limit High/Low MPH Thresh  
TCC Coast Load Limit Hysteresis  
TCC Lockup Delay  
Fuel Cutoff Engine Speed  
Fuel Resume Engine Speed  
Fuel Cutoff Speed  
Fuel Resume Speed  
A/C Disable %TPS Threshold  
N/V Ratio for 5th Gear  
N/V Ratio for 4th Gear  
N/V Ratio for 3rd Gear  
N/V Ratio for 2nd Gear  
N/V Ratio for 1st Gear  
RPM Tolerance for 5th Gear  
RPM Tolerance for 4th Gear  
RPM Tolerance for 3rd Gear  
RPM Tolerance for 2nd Gear  
RPM Tolerance for 1st Gear  
Shift Light Delay Time (1st Gear)  
Shift Light Delay Time (2nd - 5th Gear)  
Shift Light Enable RPM (4th -> 5th)  
Shift Light Disable MAP (4th -> 5th)  
Shift Light Enable RPM (3rd -> 4th)  
Shift Light Disable MAP (3rd -> 4th)  
Shift Light Enable RPM (2nd -> 3rd)  
Shift Light Disable MAP (2nd -> 3rd)  
Shift Light Enable RPM (1st -> 2nd)  
Shift Light Disable MAP (1st -> 2nd)  
PROM ID

## **Tables**

ECM Switch Table  
ECM Constant Table  
Main Spark Advance Vs. RPM Vs. MAP  
Cool Compensation Spark Vs Vacuum  
EGR Spark Advance Correction Vs. %EGR  
Power Enrich Spark Advance Vs RPM  
Cold Engine AFR Vs. Coolant Temp. Vs. MAP  
Crank Air Fuel Ratio Vs. Coolant Temp.  
Time-Out Run AFR Correction Vs. Coolant Temp.  
Closed Throttle %Vol. Eff. Vs. RPM Vs. MAP  
OpenThrottle %Vol. Eff. Vs. RPM Vs. MAP  
%Vol. Efficiency Adder Vs. RPM  
Accel Enrich. Delta MAP Factor Vs. Delta MAP  
Accel Enrich. Delta TPS Factor Vs. Delta TPS  
Accel. Enrich Temp. Correction Vs. Cool. Temp.  
Accel Enrich. RPM Correction Vs. RPM  
Decel Enlean Temp. Correction Vs. Cool. Temp.  
Decel Enlean Load Correction Factor Vs. MAP  
Decel Enlean Delta MAP Factor Vs. Delta MAP  
Decel Enlean. Delta TPS Factor Vs. Delta TPS

Base Pulse Constant Vs. EGR Duty Cycle  
BPW Battery Voltage Correction Vs. Battery Voltage  
MAT BPW Correction Factor Vs. MAT  
Injector PW Correction Vs. Battery Voltage  
Low Pulse Width Injector Offset Vs. BPW  
Desired Idle RPM Vs. Battery Voltage  
Fast Idle IAC Position Offset Vs. Coolant Temp.  
Power Steering Stall IAC Position Offset Vs. Baro  
%EGR Vs. Vacuum Vs. RPM  
TCC Upper Load Limit Vs. MPH  
TCC Lower Load Limit Vs. MPH  
Shift Light Enable RPM Vs. %TPS (All Gears)