

# C.A.T.S. Tuner ECM 3F Parameter List

## (ECM Configuration File Version C)

### ECM Switch Parameters

Manual/Auto Transmission (X=Manual)  
Knock Retard Option (X=Enabled)  
Err 24, Vehicle Speed Err, X=Enabled  
Err 32, EGR Diagnostic Err, X=Enabled  
Err 43, ESC Diagnostic Err, X=Enabled

### 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  
Bypass Power Enrich. Delay RPM  
BPW Constant  
Target Idle RPM, A/C Off  
Target Idle RPM, A/C On  
IAC Motor Park Position  
Max IAC Motor Position  
Closed Throttle %TPS Threshold  
Small Idle RPM Error IAC Retract Amount  
Large Idle RPM Error IAC Retract Amount  
Small Idle RPM Error IAC Extend Amount  
Large Idle RPM Error IAC Extend Amount  
Large Idle RPM Error Thresh. - Positive  
Large Idle RPM Error Thresh. - Negative  
Idle RPM Error Deadband  
Throttle Follower Scalar (in P/N)  
Throttle Follower Scalar (in Drive)  
Throttle Follower %TPS Bias  
Max Throttle Follower IAC Steps  
Throttle Follower Filter Coeff - Low Vss  
Throttle Follower Filter Coeff - Mid Vss  
Throttle Follower Filter Coeff - Hi Vss  
Stall Saver Enable RPM Threshold  
Stall Saver Disable RPM Threshold  
Number of Cylinders  
Minimum BLM Value  
Maximum BLM Value  
BLM RPM Boundary Hysteresis  
BLM MAP Boundary Hysteresis  
Block Learn Update Rate  
Minimum Integrator Value  
Maximum Integrator Value  
Stoichiometric AFR  
Cold Closed Loop Timer  
Warm Closed Loop Timer  
Min. Coolant Temp. For Closed Loop Fuel  
Open Loop Idle Enable TPS Threshold

Open Loop Idle Disable TPS Threshold  
Open Loop Idle Enable RPM Threshold  
Open Loop Idle Disable RPM Threshold  
Open Loop Idle Enable Speed Threshold  
Open Loop Idle Disable Speed Threshold  
Maximum Open Loop Idle AFR  
DFCO Disable RPM Threshold  
DFCO Re-enable RPM Threshold  
DFCO Disable Speed Threshold  
DFCO Re-enable Speed Threshold  
EGR Enable Coolant Temp. Threshold  
EGR Disable 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 Vs. MAP Vs. RPM  
Base Cool. Adv. Correction Vs. Load Vs. Cool. Temp  
Power Enrichment Spark Adder Vs. RPM Vs. Baro.  
EGR Spark Advance Vs. % EGR  
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  
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.  
Air Fuel Ratio at Startup Vs. Cool. Temp. (Choke)  
Open Loop Air Fuel Ratio Vs. MAP  
Choke Air Fuel Ratio Mult. Vs. Coolant Temp.  
Crank Air Fuel Ratio Vs. Coolant Temp.  
BLM Cell RPM Boundaries  
BLM Cell MAP Boundaries  
BPW Constant Vs. Air Flow Vs. %EGR  
Pulse Width Correction Vs. Battery Voltage  
O2 Sensor Voltage Thresholds Vs. Air Flow  
% EGR Vs. Load Vs. RPM  
EGR % Correction Vs. Load Vs. EGR Duty Cycle  
IAC Steps Vs. Coolant Temp.  
Stall Saver IAC Steps Vs. Baro  
TCC Load Limit vs Vss, Low Gears, Upper Limit  
TCC Load Limit Vs. Vss, Low Gears, Lower Limit  
TCC Load Limit Vs. Vss, Hi Gears, Upper Limit  
TCC Load Limit Vs. Vss, Hi Gears, Lower Limit