

# C.A.T.S. Tuner ECM 42 Parameter List

## (ECM Configuration File Version BC)

### ECM Switch Parameters

Burst Knock Retard Option (X=Enabled)  
Open Loop Decel AFR Option (X=Enabled)  
Manual/Auto Transmission (X=Manual)  
TCC Unlock in DFCO (X = Enabled)  
Err 12, No Ref. Pulses (X=Enabled)  
Err 13, O2 Sensor Diag (X=Enabled)  
Err 14, ECT Sensor High (X=Enabled)  
Err 15, ECT Sensor Low (X=Enabled)  
Err 21, TPS Sensor High (X=Enabled)  
Err 22, TPS Sensor Low (X=Enabled)  
Err 24, Vehicle Speed Diag (X=Enabled)  
Err 32, EGR Diagnostic (X=Enabled)  
Err 33, MAP Sensor High Diag (X=Enabled)  
Err 34, MAP Sensor Low Diag (X=Enabled)  
Err 35, IAC Diagnostic (X=Enabled)  
Err 41, No DRP Diagnostic (X=Enabled)  
Err 42, EST Diagnostic (X=Enabled)  
Err 43, ESC Diagnostic (X=Enabled)  
Err 44, O2 Sensor Lean Diag. (X=Enabled)  
Err 45, O2 Sensor Rich Diag. (X=Enabled)  
Err 51, EPROM Diag (X=Enabled)  
Err 52, Cal Pack Missing (X=Enabled)  
Err 54, Fuel Pump Relay Diag (X=Enabled)  
Err 55, ADU Diagnostic (X=Enabled)

### ECM Constants

Main Spark Bias  
Cool. Temp. Compensation Spark Adv. Bias  
Initial Spark Advance  
Extended Spark RPM Slope  
Max RPM for Extended RPM Spark  
Spark Advance Added in ALDL Mode  
Min. Speed To Enable Highway Mode Spark  
Time Delay To Enable Highway Mode Spark  
Knock Retard Enable Coolant Temp  
Burst Knock Retard Enable MAP Threshold  
Burst Knock Retard Enable TPS Threshold  
Burst Knock Enable Diff. TPS Threshold  
Burst Knock Retard Duration  
Bypass Power Enrichment Delay  
Power Enrichment Mode Delay  
BPW Constant  
Sync Inj. Mode Disable Pulse Width  
Sync Inj. Mode Enable Pulse Width  
Injector Pulse Width Offset  
Min. Async Injector Pulse Width  
Max. Async Injector Pulse Width  
EGR On, (% TPS)  
EGR Off, (% TPS)  
EGR Off, (Speed)  
EGR On, (Speed)

EGR Enable Coolant Temp Threshold  
Low MAP EGR Off, (MAP)  
Low MAP EGR On, (MAP)  
Minimum MAP for BLM  
Maximum MAP for BLM  
Maximum RPM for BLM  
Speed to Enable Open Loop Idle  
% TPS To Enable Open Loop Idle  
Maximum AFR At Open Loop Idle  
Lean Idle AFR At Open Loop  
Maximum AFR In Open Loop (Non-idle)  
Warm Closed Loop Delay Timer  
Cold Closed Loop Timer  
Min. Coolant Temp. For Closed Loop Fuel  
Open Loop Idle AFR Enable RPM Threshold  
Open Loop Idle AFR Disable RPM Threshold  
Open Loop Idle AFR Enable Delay  
Open Loop Idle AFR Time Delay  
Open Loop Decel Enable Speed  
Open Loop Decel Enable RPM  
Open Loop Decel Enable Cool. Temp.  
TCC Enable Coolant Temp.  
TCC Lock, Low Gears, High Speed  
TCC Lock, Low Gears, Low Speed  
TCC Lock, High Gears, High Speed  
TCC Lock, High Gears, Low Speed  
Kickdown Solenoid Enable MAP (Low MPH)  
Kickdown Solenoid Enable MAP (High MPH)  
Kickdown Solenoid Enable MAP Hysteresis  
Kickdown Solenoid High/Low MPH Threshold  
IAC Park Position  
IAC Park or Neutral Offset  
Idle RPM Adder - A/C On  
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  
Maximum BLM Value  
Minimum BLM Value  
Minimum Integrator Value  
Maximum Integrator Value  
Stoichiometric AFR  
Number of Cylinders  
DFCO Enable Speed  
DFCO Disable Speed  
DFCO Enable RPM  
DFCO Disable RPM  
DFCO Enable MAP  
DFCO Disable MAP  
Exit DFCO Fuel Pulse Width  
Exit DFCO Fuel Pulse Width Delay  
DFCO Max %TPS  
DFCO Enable Coolant Temp.  
Clear Flood AFR  
AIR Divert Enable Coolant Temp  
AIR Divert Disable MAP Threshold  
Force Shift Light On RPM Threshold  
Maximum AFR Value  
Baro Update RPM Threshold  
High MAP Diag (Error 33) MAP Threshold

High MAP Diag (Error 33) TPS Threshold  
Low MAP Diag (Error 34) MAP Threshold  
Low MAP Diag (Error 34) TPS Threshold  
Low MAP Diag (Error 34) RPM Threshold  
PROM ID

## **Tables**

ECM Switch Table  
ECM Constant Table  
Main Spark Table  
Cool Compensation Spark Advance  
Power Enrichment Spark (Deg)  
Highway Mode Spark Advance Vs. Vacuum  
Max Knock Retard Vs. RPM (in PE)  
Max Knock Retard Vs. MAP  
Burst Knock Retard Vs. Coolant Temp.  
Main Fuel Table #1, % Volumetric Efficiency  
Main Fuel Table #2, % Volumetric. Efficiency Adder  
% TPS Threshold Vs. RPM for PE Mode  
Power Enrichment Air Fuel Ratio Vs. RPM  
Accel. Enrichment Vs. Differential TPS  
Accel. Enrichment Vs. Differential MAP  
Accel Enrich TPS Filter Coefficient Vs. Cool Temp  
Open Loop Air Fuel Ratio Vs. Coolant Temp.  
Air Fuel Ratio at Startup Vs. Cool. Temp. (Choke)  
Open Loop Air Fuel Ratio Vs. MAP  
Choke Air Fuel Ratio Multiplier Vs. Coolant Temp.  
Crank Air Fuel Ratio Vs. Coolant Temp.  
BLM Cell RPM Boundaries  
BLM Cell MAP Boundaries  
Mean Rich/Lean O2 Voltage Threshold Vs Air Flow  
Rich O2 Voltage Threshold Vs Air Flow  
Lean O2 Voltage Threshold Vs Air Flow  
IAC Steps Vs. Coolant Temp.  
Target Idle RPM Vs. Coolant Temp.  
EGR Spark Advance Vs. % EGR  
% EGR Vs. Load Vs. RPM  
EGR Correction Vs. Load Vs. EGR Duty Cycle  
BPW Constant Vs. Air Flow Vs. EGR D.C.  
TCC Load Upper Limit vs MPH, (Low Gears)  
TCC Load Lower Limit Vs. MPH, (Low Gears)  
TCC Load Upper Limit vs MPH, (High Gear)  
TCC Load Lower Limit vs MPH, (High Gear)  
Speed / RPM Ratio Limits Vs. Gear  
Shift Light Enable RPM Vs. Gear