

# C.A.T.S. Tuner PCM 8BA Parameter List

## (ECM Configuration File Version B)

### ECM Switch Parameters

Auto / Manual Transmission (X = manual)  
Non-Electronic Auto Trans (X = Enabled)  
VATS Select (X = Enabled)  
Open Loop AFR Enable (X=Enabled)  
Fuel Mode (X = CPI/PFI Mode)  
Idle Fuel Mode (X = Synchronous)  
EGR System Type (X=Back Pressure)  
EGR System Control (X=Linear) 0=EVRV  
A/C Clutch / Port Tune Control (X = A/C)  
Low BPW Offset Table Option (X = Active)  
MAT Sensor Option (X = Selected)  
TCC PWM Control (X=Enabled)  
TCC Gradual Release (X=Enabled)  
TCC Off on Downshift (X=Enabled)  
TCC Off on Upshift (X=Enabled)  
Vss PPM Diagnostic (Error 16)  
MAT Sensor Low Diagnostic (Error 23)  
Vehicle Speed 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 Montior Diagnostic (Error 42)  
ESC Diagnostic (Error 43)  
O2 Lean Diagnostic (Error 44)  
O2 Rich Diagnostic (Error 45)  
Fuel Pump Relay Diagnostic (Error 54)  
Trans High Temp Diagnostic (Error 58)  
Trans Low Temp Diagnostic (Error 59)  
3->2 Shift Quad Driver Diag (Error 66)  
TCC Quad Driver Diagnostic (Error 67)  
Force Motor Current Diag (Error 73)  
Quad Driver #1 Shift B Diag (Error 81)  
Quad Driver #1 Shift A Diag (Error 82)  
Quad Driver #1 Diagnostic (Error 83)

### ECM Constants

Initial Spark Advance  
Main Spark Bias  
Torque Management Max Spark Retard  
Max Speed for Idle Fuel Table  
Max Speed for Idle Spark Table  
Fuel Cutoff RPM  
Fuel Resume RPM  
Fuel Cutoff Speed  
Fuel Resume Speed  
Fuel Cutoff RPM (Default Gear/MALF 16)  
Fuel Resume RPM (Default Gear/MALF 16)  
Cylinder Volume (per Cylinder )  
Number Of Cylinders  
Injector Flow Rate (Per Bank)

Max %TPS For Idle Fuel  
RPM To Bypass WOT Delay  
WOT Delay Period  
EGR Off, (TPS)  
EGR On, (TPS)  
EGR Off, (Eng Speed)  
EGR On, (Eng Speed)  
EGR Off, (Low MAP Window)  
EGR On, (Low MAP Window)  
EGR Off, (High MAP Window)  
EGR On, (High MAP Window)  
Minimum MPH Tto Enable EGR  
Kick Down Lower Qualifier (TPS)  
Kick Down Upper Qualifier (TPS)  
RPM/VSS Ratio  
Min. Coolant Temp. for Closed Loop  
Stoichiometric AFR  
Cold O2 Closed Loop DelayTimer  
Warm O2 Closed Loop DelayTimer  
Hot O2 Closed Loop DelayTimer  
Warm O2 Delay Cool Temp. Threshold  
Hot O2 Delay Cool Temp. Threshold  
Minimum BLM Value  
Maximum BLM Value  
Minimum Integrator Value  
Maximum Integrator Value  
Maximum RPM To Enable BLM  
Min MAP for BLM Enable  
Max MAP for BLM Enable  
Async To Sync Fuel MAP Threshold  
Async To Sync Fuel RPM Threshold  
Sync To Async Fuel MAP Threshold  
Sync To Async Fuel RPM Threshold  
Sync-->Async BPW Threshold  
Async-->Sync BPW (Min)  
Minimum Sync BPW  
Default Sync BPW  
Maximum Async BPW  
Minimum Async BPW  
Low BPW Offset Vs. BPW Table Bias  
Minimum Double Fire Period  
Injector Fire Delay from DRP  
Startup Fuel Decay Multiplier  
Startup Fuel Decay Delay  
Lean Cruise Enable Cool. Temp.  
Port Tuning Control Lower RPM Enable  
Port Tuning Control Lower RPM Disable  
Port Tuning Control Upper RPM Enable  
Port Tuning Control Upper RPM Disable  
Port Tuning Control %TPS Enable Thresh.  
Port Tuning Control %TPS Disable Thresh.  
Port Tuning Control Min Coolant Temp.  
Baro Update Max. RPM Threshold  
Baro Update Min. RPM Threshold  
Baro Update Min. TPS Threshold  
Baro Update Min. Delta TPS Threshold  
Baro Update Min. Coolant Temp.  
Stall Saver % Target RPM Thresh, in P/N  
Stall Svr %Target RPM Thresh, in P/N, AC  
Stall Saver %Target RPM Thresh, in Drive  
Stall Svr %Target RPM Thresh, in Dr, AC  
Stall Saver %Diff Flow Thresh, in P/N  
Stall Svr %Diff Flow Thresh, in P/N, AC

Stall Svr %Diff Flow Thresh, in Drive  
Stall Svr %Diff Flow Thresh, in Drv, AC  
Stall Saver Re-enable Delay, in P/N  
Stall Saver Re-enable Delay, in Drive  
IAC Airflow Adder After Startup  
Startup Added Airflow Decay Period  
A/C Clutch Disable RPM Threshold  
A/C Clutch Re-enable RPM Threhold  
Successive Power-ups to Clear Errors  
TCC Enable Engine Coolant Temp  
TCC Disable Engine Coolant Temp  
TCC Enable Transmission Temp  
TCC Disable Transmission Temp  
Manual Mode Low 1 -> 2 Shift Speed  
Manual Mode Low 2 -> 1 Shift Speed  
Platform ID (MSW)  
Platform ID (LSW)  
PROM ID

## Tables

ECM Switch Table  
ECM Constant Table  
Main Spark Table, Open Throttle  
Main Spark Table, Closed Throttle  
Power Enrichment Spark  
Cool Compensation Spark Vs. Load  
EGR Spark Correction Vs RPM Vs Vacuum  
Startup Spark Advance Correction Vs. Coolant Temp.  
Startup Spark Decay Rate Vs. Coolant Temp  
Startup Spark Decay Delay Vs. Coolant Temp.  
Max Knock Retard Vs RPM (in WOT)  
Max Knock Retard Vs. MAP  
Main Fuel Table, Off Idle, %Vol. Eff.  
Main Fuel Table, Near Idle, %Vol. Eff.  
TPS Threshold Vs. RPM For WOT  
TPS Threshold Vs. RPM For WOT (Fast)  
Engine %EGR Vs RPM Vs Vacuum  
Mean Rich/Lean O2 Voltage Threshold Vs Air Flow  
Rich O2 Voltage Threshold Vs Air Flow  
Lean O2 Voltage Threshold Vs Air Flow  
Proportional Gain Vs RPM Vs MAP  
Proportional Counts Vs Slow O2 Error  
WOT AFR Vs. RPM  
Accel. Enrichment Vs. Differential TPS  
Diff. TPS Accel. Enrich. Coefficient Vs. Cool Temp  
Diff. TPS Accel. Enrich. Multiplier Vs. Baro.  
Accel. Enrichment Vs. Differential MAP  
Diff MAP Accel. Enrich. Correction Vs. Cool. Temp.  
Diff. MAP Accel. Enrich. Correction Vs. RPM  
Accel. Enrich. Temperature Correction Vs Cool Temp  
Accel. Enrich. Temperature Correction Mult. Vs MAT  
Open Loop AFR Vs. Coolant Temp. Vs. Vacuum  
AFR Reduction at Startup Vs. Cool. Temp. (Choke)  
Startup Fuel Decay Rate Vs. Coolant Temp.  
Startup Fuel Decay Rate Multiplier Vs. Air Flow  
Crank BPW Vs. Coolant Temp.  
Injector Offset PW vs Battery Voltage  
Low BPW Offset Vs. BPW  
BLM Cell RPM Boundaries  
BLM Cell MAP Boundaries

Decel Enleanment Vs Differential MAP  
Decel Enleanment Vs Differential TPS  
DFCO Disable RPM Threshold Vs. Coolant Temp.  
DFCO Disable %TPS Threshold Vs. RPM  
Target Idle Vs. Cool. Temp. Pk/Neut - A/C Off  
Target Idle Vs. Cool. Temp. Pk/Neut - A/C On  
Target Idle Vs. Coolant Temp. (A/C Off)  
Target Idle Vs. Coolant Temp. (A/C On)  
Initial IAC Airflow Offset Vs. Cool Temp (In P/N)  
Initial IAC Airflow Offset Vs. Cool Temp (In Gear)  
Initial IAC Offset Decay Period Vs. Cool. Temp.  
Main Line Pressure Table, 0 - 64 MPH  
Main Line Pressure Table, 64 - 128 MPH  
Upshift/Downshift Speed Vs. TPS  
Kickdown Mode Shift Speed Vs. Shift  
Hot Kickdown Mode Shift Speed Vs. Shift  
Cold Kickdown Mode Shift Speed Modifier Vs. Shift  
Kickdown Mode Shift RPM Vs. Shift  
Hot Kickdown Mode Shift RPM Vs. Shift  
Cold Kickdown Mode Shift RPM Modifier Vs. Shift  
Torque Converter Release MPH Vs. TPS  
Torque Converter Engage MPH Vs. TPS  
Line Press. Mod. Vs. Current Gear Vs. TPS  
Down Shift Pressure Mod 2 -> 1 Vs. MPH  
Down Shift Pressure Mod 3 -> 2 Vs. MPH  
Down Shift Pressure Mod 4 -> 3 Vs. MPH  
Line Pressure Mod In WOT Vs. RPM  
Desired Shift Time Vs. %TPS Vs. Shift