

# C.A.T.S. Tuner ECM 5B3 Parameter List

## (ECM Configuration File Version H)

### ECM Switch Parameters

VATS Select (X = Enabled)  
Vehicle Speed Diagnostic (Error 24)  
QDM Diagnostic (Err = 26)  
440T4 2nd Gear Sw Diag (Err = 27)  
440T4 3rd Gear Sw Diag (Err = 28)  
440T4 4th Gear Sw Diag (Err = 29)  
440T4 P/N Sw Diagnostic (Err = 31)  
4T60E PRNDL Sw Diag (Err = 31)  
4T60E Trans Shift Diagnostic (Err = 36)  
TCC Brake Switch Failure (Err = 38)  
TCC Failure Diagnostic (Err = 39)  
Knock Diagnostic (Error 43)  
UART Data Link Diagnostic (Err = 47)  
VATS Diagnostic (Error 58)  
EGR #3 Solenoid Diagnostic (Error 63)  
EGR #2 Solenoid Diagnostic (Error 64)  
EGR #1 Solenoid Diagnostic (Error 65)  
High A/C Press Sw Diagnostic (Err = 69)  
A/C Freon Low Diagnostic (Err = 66)  
A/C Pressure Sensor Diagnostic (Err= 66)

### ECM Constants

Spark Reference Angle  
Coolant Compensation Spark Bias  
MAT Spark Advance Bias  
Fan 1 On Coolant Temp.  
Fan 1 Off Coolant Temp.  
Fan 1 Disable Speed Threshold  
Fan 1 Enable Speed Threshold  
Fan 2 On Coolant Temp.  
Fan 2 Off Coolant Temp.  
Fuel Cutoff RPM (In Drive)  
Fuel Resume RPM (in Drive)  
Fuel Cutoff RPM (In P/N)  
Fuel Resume RPM (in P/N)  
Fuel Cutoff Speed  
Fuel Resume Speed  
Injector Flow Rate  
Minimum BLM  
Maximum BLM  
BLM RPM Cell Boundry Hysteresis  
BLM Cell LV8 Boundry Hysteresis  
Closed Loop Enable Cool. Temp Threshold  
Closed Loop Enable RPM Threshold  
Warm Closed Loop Timer  
Cold Closed Loop Timer  
Warm/Cold Closed Loop Timer Threshold  
Max. TPS For Closed Loop Idle RPM Cntrl.  
Max Speed For Clsd. Lp. Idle RPM Control  
Max Air Flow For Clsd. Lp. Idle Control  
IAC Steps Added For P/N-Drive (A/C Off)

IAC Steps Added For P/N-Drive (A/C On)  
DFCO Enable RPM Threshold  
DFCO Disable RPM Threshold  
DFCO Enable LV8 Threshold  
DFCO Disable LV8 Threshold  
DFCO Disable RPM Decrease/50 msec Thresh  
DFCO Enable Delay Time  
DFCO Disable %TPS Threshold  
DFCO Enable Coolant Temp. Threshold  
TCC Enable Lower Coolant Temp. Threshold  
TCC Enable Upper Coolant Temp. Threshold  
Positive Delta TPS TCC Unlock Threshold  
Negative Delta TPS TCC Unlock Threshold  
TCC Delay Before Lock  
Abusive Maneuver MPH Disable Thresh.  
Abusive Maneuver %TPS Enable Thresh.  
Abusive Maneuver RPM Enable Thresh.  
Abusive Maneuver %TPS Disable Thresh.  
Road Speed Constant  
Instrument Panel VSS Pulse Divisor  
Kickdown Shift Mode TPS Enable Threshold  
Kickdown Shift Mode TPS Disable Thresh.  
PROM ID

## **Tables**

ECM Switch Table  
ECM Constant Table  
Main Spark Table  
Cool Compensation Spark Advance  
MAT Spark Advance Vs Load  
TCC Locked Spark Advance Vs. RPM Vs. Load  
Knock Retard Recovery Rate Vs. RPM (%/sec)  
Knock Retard Attack Rate Vs. RPM (Deg/msec)  
Engine Efficiency Vs. RPM Vs. AFR  
BLM Cell RPM Boundaries  
BLM Cell LV8 Boundaries  
Injector Offset Vs Battery Voltage  
Low Pulse Width Injector Offset Vs. BPW  
Open Loop AFR Vs Load Vs. RPM  
DTPS Accel. Enrich. Mult. Vs. Cool. Temp. In P/N  
DTPS Accel. Enrich. Mult. Vs. Cool. Temp. In Drive  
Delta TPS Accel. Enrich. Mult. Vs. Air Temp.  
Power Enrich. TPS Threshold Vs. RPM  
Power Enrich. AFR Vs. Coolant Temp.  
Power Enrichment Fuel Trim Vs. RPM  
Power Enrich % Change to AFR Vs. Time in P.E.  
Target Idle RPM Vs. Coolant Temp. (In Park/Neutral)  
Target Idle RPM Vs. Coolant Temp (In Drive)  
Throttle Follower Correction Vs. Vehicle Speed  
Max. Throttle Follower Steps Vs. Vehicle Speed  
Crank Fuel Pulse Width Vs. Coolant Temp.  
Crank Fuel Pulse Width Multiplier Vs Ref. Pulses  
Crank Fuel Enleanment Multiplier Vs. RPM  
Crank Fuel Pulse Width Multiplier Vs. % TPS  
MAF Vs. Output Frequency Table 1  
MAF Vs. Output Frequency Table 2  
MAF Vs. Output Frequency Table 3  
MAF Vs. Output Frequency Table 4  
MAF Vs. Output Frequency Table 5  
MAF Vs. Output Frequency Table 6

MAF Vs. Output Frequency Table 7

MAF Vs. Output Frequency Table 8

TCC Lock Speed Vs. % TPS, Normal Mode, 3rd Gear

TCC Unlock Speed Vs. % TPS, Normal Mode, 3rd Gear

TCC Lock Speed Vs. % TPS, Normal Mode, 4th Gear

TCC Unlock Speed Vs. % TPS, Normal Mode, 4th Gear

TCC Lock Speed Vs. % TPS, Cruise Mode, 3rd Gear

TCC Unlock Speed Vs. % TPS, Cruise Mode, 3rd Gear

TCC Lock Speed Vs. % TPS, Cruise Mode, 4th Gear

TCC Unlock Speed Vs. % TPS, Cruise Mode, 4th Gear

TCC %D.C. Apply Rate Vs. %TPS

TCC %D.C. Release Rate Vs. %TPS

Kickdown Mode RPM Shift Points Vs. Shift

Kickdown Mode Speed Shift Points Vs. Shift

Kickdown Mode Speed Shift Point Hyst. Vs. Shift

Normal Mode Shift Points Vs. %TPS Vs. Shift