

C.A.T.S. Tuner ECM 1CA Parameter List

(ECM Configuration File Version C)

ECM Switch Parameters

VATS Select (X = Enabled)
EGR Option (X = Enabled)
O2 Sensor Diagnostic (Error 13)
ECT Sensor High Diagnostic (Error 14)
ECT Sensor Low Diagnostic (Error 15)
Battery Voltage Diagnostic (Error 16)
RPM Signal Diagnostic (Error 17)
CAM/Crank Signal Diagnostic (Error 18)
TPS High Diagnostic (Error 21)
TPS Low Diagnostic (Error 22)
Air Temp. Sensor Low Diag. (Error 23)
Vehicle Speed Diagnostic (Error 24)
Air Temp. Sensor High Diag. (Error 25)
2nd Gear Sw Fault 440T4 (Error 27)
QDM A Diagnostic (Error 26)
3rd Gear Sw Fault 440T4 (Error 28)
P/N Switch Diagnostic 440T4 (Error 31)
PRNDL Switch Diagnostic 4T60E (Error 31)
MAF Sensor Diagnostic (Error 34)
Trans Shift Problem 4T60E (Error 36)
TCC Brake Sw Diagnostic (Error 38)
TCC Diagnostic (Error 39)
CAM Sensor Diagnostic (Error 41)
EST Diagnostic (Error 42)
Knock Diagnostic (Error 43)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Lean Diagnostic (Error 44B)
O2 Sensor Rich Diagnostic (Error 45)
O2 Sensor Rich Diagnostic (Error 45B)
EGR 1 Diagnostic (Error 53)
EGR 2 Diagnostic (Error 54)
EGR 2 Diagnostic (Error 55)
QDM B Diagnostic (Error 56)
SC Boost Control Diagnostic (Error 57)
VATS Diagnostic (Error 58)
Cruise Vent Solenoid Diag (Error 61)
Cruise Vac Solenoid Diag (Error 62)
Cruise Pos Sensor Low Diag (Error 63)
Cruise Servo Pos Sensor Diag (Error 65)
A/C Freon Low (Error 66)
Cruise Switch Diagnostic (Error 67)
Cruise Pos Sensor High Diag (Error 68)
High A/C Press Sw Diagnostic (Error 69)
Solenoid B Diagnostic (Error 73)
Injector Wiring Diagnostic (Error 74)
Cruise Pwr Mgmt Diagnostic (Error 99)

ECM Constants

Spark Reference Angle
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 MAF 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
Stoichiometric AFR
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
EGR Enable %TPS Threshold
EGR Disable %TPS 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.
Kickdown Shift Mode TPS Enable Threshold
Kickdown Shift Mode TPS Disable Thresh.
Road Speed Constant
Instrument Panel VSS Pulse Divisor
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
EGR Spark Advance Vs RPM Vs Load
Spark Advance/Retard Vs. Time in P. E.
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 MAF 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)
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
Normal Mode MPH Shift Points Vs. %TPS Vs. Shift
Normal Kickdown Mode RPM Shift Points Vs. Shift
Normal Kickdown Mode Speed Shift Points Vs. Shift
Kickdown Mode Speed Shift Point Hyst. Vs. Shift
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 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