

C.A.T.S. Tuner ECM 99 Parameter List

(ECM Configuration File Version T)

ECM Switch Parameters

Manual/Auto Transmission (X=Manual)
Open Loop Decel AFR Option (X=Enabled)
EGR System Type (X = Back Pressure)
O2 Sensor Diagnostic (Error 13)
ECT Sensor Hi Diagnostic (Error 14)
ECT Sensor Low Diagnostic (Error 15)
TPS Sensor Hi Diagnostic (Error 21)
TPS Sensor Low Diagnostic (Error 22)
MAT Sensor Low Diagnostic (Error 23)
Vehicle Speed Sensor Failure (Error 24)
MAT Sensor Hi Diagnostic (Error 25)
MAP Sensor Low Diagnostic (Error 31)
EGR Diagnostic (Error 32)
MAP Sensor Hi Diagnostic (Error 33)
MAP Sensor Hi Diagnostic (Error 34)
IAC Diagnostic (Error 35)
DRP Diagnostic (Error 41)
EST Monitor Diagnostic (Error 42)
Knock Diagnostic (Error 43)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Rich Diagnostic (Error 45)
EPROM Diagnostic (Error 51)
Cal-Pack Diagnostic (Error 52)
VATS Diagnostic (Error 53)
Fuel Pump Relay Diag. (Error 54)
ADU Diagnostic (Error 55)

ECM Constants

Initial Spark Advance (Distributor)
Main Spark Bias
Cool. Temp. Compensation Spark Adv. Bias
Max Spark Advance
Knock Retard Enable Coolant Temp.
Spark Advance Added in ALDL Mode
Bypass Power Enrich. Delay RPM
Power Enrich. Enable Delay
Base Pulse Width Constant
Min. Coolant Temp. For Closed Loop Fuel
Open Loop Idle Fuel Enable Speed
Open Loop Idle Fuel Enable TPS
Minimum AFR for Open Loop Idle
Lean Idle AFR for Open Loop
Maximum AFR for Open Loop (Non-idle)
Warm Closed Loop Timer
Cold Closed Loop Timer
Open Loop Idle AFR Enable Delay
Stoichiometric AFR
BLM Update Disable RPM
BLM Update Enable MAP Threshold
BLM Update Disable MAP Threshold
Minimum BLM Value

Minimum BLM Value at Idle
Maximum BLM Value
Minimum Integrator Value
Maximum Integrator Value
CL -> OL Fuel Upper O2 Threshold
CL -> OL Fuel Lower O2 Threshold
OL -> CL Fuel Upper O2 Threshold
OL -> CL Fuel Lower O2 Threshold
CL -> OL Idle Fuel Upper O2 Threshold
CL -> OL Idle Fuel Lower O2 Threshold
OL -> CL Idle Fuel Upper O2 Threshold
OL -> CL Idle Fuel Lower O2 Threshold
Sync Inj. Mode Disable Pulse Width
Sync Inj. Mode Enable Pulse Width
Async->Sync Fuel MAP Threshold
Async->Sync Fuel RPM Threshold
Sync->Async Fuel MAP Threshold
Sync->Async Fuel RPM Threshold
Min. Async Injector Pulse Width
Max. Async Injector Pulse Width
Injector Pulse Width Offset
DFCO Enable RPM
DFCO Disable RPM
DFCO Enable Speed
DFCO Disable Speed
DFCO Enable MAP Threshold
DFCO Disable MAP Threshold
Exit DFCO Fuel Pulse Width
Exit DFCO Fuel Pulse Width Delay
DFCO Disable TPS Threshold
DFCO Enable Coolant Temp.
IAC Deadband
IAC Park Position
EGR Enable TPS
EGR Disable TPS
EGR Enable RPM
EGR Disable RPM
EGR Enable MAP
EGR Disable MAP
Hi MAP Error Code 33 MAP Threshold
Baro Update Enable Coolant Temp.
TCC Lock, (Low Gears)
TCC Unlock, (Low Gears)
TCC Lock, (High Gears)
TCC Unlock, (High Gears)
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Main Spark Advance Vs RPM Vs. Load
EGR Spark Advance Vs. % EGR
Cool Compensation Spark Vs load
Power Enrichment Spark Advance Vs. RPM
Idle Overspeed Spark Retard vs RPM
Idle Underspeed Spark Advance vs RPM
Spark Timeout vs Coolant Temp.
Maximim Knock Retard Vs. RPM (in WOT)
Maximim Knock Retard Vs. MAP
Main Fuel Table (%VE) Vs. RPM Vs. MAP

BPW Constant Vs. %EGR
TPS Threshold Vs. RPM For PE Mode (Fast)
TPS Threshold Vs. RPM For PE Mode
Power Enrich. Air Fuel Ratio Vs. RPM
Accel Enrich Vs. Differential TPS
Accel Enrich Vs. Differential MAP
Accel Enrich Diff. TPS Coefficient Vs. Cool. Temp.
Open Loop AFR Vs. Coolant Temp.
Open Loop AFR Vs. MAP
Mean/Rich/Lean O2 Voltage Threshold Vs. Air Flow
BLM Cell RPM Boundaries
BLM Cell MAP Boundaries
Crank AFR Correction Vs. Coolant Temp.
Choke AFR Decay Multiplier Vs. Coolant Temp.
IAC Steps Vs. Coolant
Target Idle RPM Vs Coolant (In gear)
Target Idle RPM Vs Coolant (out of gear)
TCC Upper Load Limit vs MPH (Low Gears)
TCC Lower Load Limit vs MPH (Low Gears)
TCC Upper Load Limit vs MPH (High Gears)
TCC Lower Load Limit vs MPH (High Gears)