

C.A.T.S. Tuner ECM 4C Parameter List

(ECM Configuration File Version A)

ECM Switch Parameters

Manual Trans Option (X = Selected)
No Ref. Pulses: Error 12 (X=Enabled)
O2 Sensor Open: Error 13 (X=Enabled)
CTS Sensor Shorted: Error 14 (X=Enabled)
CTS Sensor Open: Error 15 (X=Enabled)
TPS Sensor High: Error 21 (X=Enabled)
TPS Sensor Low: Error 22 (X=Enabled)
MAT Sensor Open: Error 23 (X=Enabled)
Vss Sensor Failure: Error 24 (X=Enabled)
MAT Sensor Shorted: Error 25 (X=Enabled)
EGR Vacuum: Error 32 (X=Enabled)
MAF Sensor High: Error 33 (X=Enabled)
MAF Sensor Low: Error 34 (X=Enabled)
No Waste Gate Pulses: Error 41
EST Monitor: Error 42 (X=Enabled)
ESC Failure: Error 43 (X=Enabled)
O2 Sensor Lean: Error 44 (X=Enabled)
O2 Sensor Rich: Error 45 (X=Enabled)

ECM Constants

Fuel Cutoff RPM
Fuel Resume RPM
Fuel Cutoff Vehicle Speed
Fuel Resume Vehicle Speed
Fan On Coolant Temp.
Fan Off Coolant Temp.
Max Speed for Fan On
Max TPS for Fan On
Coolant Compensation Spark Bias
MAT Spark Advance Correction Table Bias
Injector Flow Rate
Closed Loop Mode Air Fuel Ratio
Closed Loop Enable Cool. Temp Threshold
Minimum BLM
Maximum BLM
Power Enrich TPS Enable Hysteresis
Cold Closed Loop Fuel Timer
Warm Closed Loop Fuel Timer
Warm C/L Timer Coolant Temp. Threshold
Open Loop Idle Air Fuel Ratio
Min. Base Pulse Width
Min. Async Pulse Width
DFCO Enable RPM Threshold
DFCO Disable RPM Threshold
DFCO Enable TPS Threshold
DFCO Enable Coolant Temp. Threshold
DFCO Enable Air Flow Threshold
DFCO Disable Air Flow Threshold
IAC Park Position
Idle RPM Offset - A/C On
Closed Loop Idle Enable Vehicle Speed

EGR Enable TPS
EGR Disable TPS
CCP Enable Coolant Temp. Threshold
TCC Lock Speed - 3rd Gear
TCC Unlock Speed - 3rd Gear
Minimum TPS For TCC - 3rd Gear
TCC Unlock %TPS Low Threshold - 3rd Gear
TCC Lock Speed - 4th Gear
TCC Unlock Speed - 4th Gear
Minimum TPS For TCC - 4th Gear
TCC Unlock %TPS Low Threshold - 4th Gear
TCC Unlock Negative Delta %TPS Threshold
TCC Lock Coolant Temp Threshold
A/C Clutch Disable TPS Threshold
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Main Spark Advance Vs. RPM Vs. Load
Cool Compensation Spark Advance
MAT Spark Advance Correction Vs. MAT Vs. Load
Knock Retard Attack Rate Vs. RPM (Deg/msec)
Knock Retard Recovery Rate Vs. RPM (%/sec)
Startup Spark Advance Vs. Coolant Temp.
Startup Spark Decay Rate Vs. Coolant Temp.
Startup Spark Decay Delay Vs. Coolant Temp.
Injector Offset Vs Battery Voltage
Low Injector P.W. Offset Vs. Base P.W.
Power Enrichment Enable TPS Vs. RPM
Power Enrichment AFR Vs. Coolant Temp.
Power Enrichment Fuel Trim Vs. RPM
Power Enrichment Fuel Trim Vs. %TPS
Power Enrichment Fuel Air Multiplier Vs. Time in PE
Accel Enrich Multiplier Vs. Air Flow
Accel Enrich Multiplier Vs. Coolant Temp.
Accel Enrich Decay Rate Vs. Coolant Temp.
Accel Enrich Max Pulse Width Vs. Coolant Temp.
Max A.E. Pulse Width Scalar Vs. Delta %TPS
Max A.E. Pulse Width Scalar Vs. Runtime
BLM Cell RPM Boundaries
BLM Cell Air Flow Boundaries
Cold BLM Minimum Vs. Cell Number
Cold Engine %AFR Change Vs Load
Cold Engine AFR Mult. Vs. Coolant Temp.
Crank Pulse Width Vs. Coolant Temp.
Crank Fuel P.W. Multiplier Vs. Reference Pulse
Crank Fuel P.W. Multiplier Vs. %TPS
Crank Enleanment Scalar Vs. RPM
Startup %Change to AFR Vs. Coolant Temp.
Fuel Pump Compensation Vs. Battery Voltage
Filter Coefficient Vs. Air Flow
Target Idle RPM Vs. Coolant Temp (In Drive)
Target Idle RPM Vs. Coolant Temp. (In Neutral)
IAC Warm Park Position Vs. Coolant Temp.
Maximum Air Flow Vs. RPM
Mass Air Flow Table #1
Mass Air Flow Table #2
Mass Air Flow Table #3
Mass Air Flow Table #4

Mass Air Flow Table #5

MAF Correction Factor Vs. Air Flow Vs MAT

EGR % Duty Cycle Vs. Load Vs. RPM

EGR % DC Multiplier Vs. Coolant Temp.

EGR % DC Multiplier Vs. Load, TCC Locked, 4th Gear

EGR % DC Multiplier Vs. Load, TCC Locked, 3rd Gear

CCP %Duty Cycle Vs. Airflow

TCC Load Limit Vs. MPH (Lock 3rd Gear)

TCC Load Limit Vs. MPH (Unlock 3rd Gear)

TCC Load Limit Vs. MPH (Lock 4 th Gear)

TCC Load Limit Vs. MPH (Unlock 4 th Gear)