

C.A.T.S. Tuner ECM T31 Parameter List

(ECM Configuration File Version S)

ECM Switch Parameters

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, Error 23 (X=Enabled)
Vss Sensor, Error 24 (X=Enabled)
MAT Sensor Shorted, Error 25 (X=Enabled)
No Wastegate Pulse, Error 31 (X=Enabled)
EGR Vacuum Error, Error 32 (X=Enabled)
MAF Sensor High, Error 33 (X=Enabled)
MAF Sensor Low, Error 34 (X=Enabled)
CAM Sensor Error, Error 41 (X=Enabled)
EST Monitor Error, 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

Coolant Compensation Spark Bias
MAT Spark Advance Correction Table Bias
Spark Advance Added in ALDL Mode
EGR On, %TPS
EGR Off, %TPS
Minimum TPS For TCC, 3rd Gear
Minimum TPS For TCC, 4th Gear
TCC Lock Speed - 3rd Gear
TCC Lock Speed - 4th Gear
TCC Unlock Speed - 3rd Gear
TCC Unlock Speed - 4th Gear
Fan On Coolant Temp.
Fan Off Coolant Temp.
Max Speed for Fan On
Max TPS for Fan On
Injector Flow Rate
Highway Mode Air Fuel Ratio
Fuel Cutoff RPM
Fuel Resume RPM
Fuel Cutoff Speed
Fuel Resume Speed
Minimum BLM
Maximum BLM
Closed Loop Enable Cool. Temp Threshold
3rd Gear Boost Scalar
4th Gear Boost Scalar
PROM ID

Tables

ECM Switch Table
ECM Constant Table
Main Spark Table
Cool Compensation Spark Advance
MAT Spark Advance Correction Vs. MAT Vs. Load
Start Up Spark Advance Vs. Coolant Temp.
Knock Retard Attack Rate Vs. RPM (Deg/msec)
Knock Retard Recovery Rate Vs. RPM (%/sec)
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)
Power Enrichment Spark Vs RPM Vs Load
Injector Offset Vs Battery Voltage
Cold Engine %AFR Change Vs Load
Highway Mode Spark Advance Vs. Load
Cold Engine AFR Mult. Vs. Coolant Temp.
Crank Pulse Width Vs. Coolant Temp.
Startup %Change to AFR Vs. Coolant Temp.
TPS For Power Enrichment
Power Enrichment AFR Vs. Coolant Temp.
Power Enrichment Fuel Trim Vs. RPM
Power Enrichment Fuel Trim Vs. %TPS
Power Enrich Fuel Air Multiplier Vs. Time in PE
Max Power Enrich PW Vs. Coolant Temp.
Accel Enrich Delta TPS PW Factor Vs Coolant Temp.
Wastgate % Duty Cycle Vs. RPM
Wastgate Duty Cycle Scalar Vs. %TPS
Filter Coefficient Vs. Air Flow
Maximum Air Flow Vs. RPM
EGR % Duty Cycle Vs. Load Vs. RPM
Target Idle RPM Vs. Coolant Temp (In Drive)
Target Idle RPM Vs. Coolant Temp. (In Neutral)
IAC Park Down Steps Vs. Coolant Temp.
MAF Vs. Count (1)
MAF Vs. Count (2)
MAF Vs. Count (3)
MAF Vs. Count (4)
MAF Vs. Count (5)
MAF Vs. Count (6)
MAF Correction Factor Vs. Air Flow Vs MAT