

C.A.T.S. Tuner ECM A5 Parameter List

(ECM Configuration File Version C)

ECM Switch Parameters

Enable AFR table Lookup
TBI / PFI Option (X = TBI)
Cylinders Select MSB
Cylinders Select LSB
O2 Sensor Open (Error 13)
High Engine Temp. (Error 14)
Low Engine Temp. (Error 15)
TPS Sensor High (Error 21)
TPS Sensor Low (Error 22)
MAT Sensor Low (Error 23)
Vss Sensor Diagnostic (Error 24)
MAT Sensor High (Error 25)
MAP Sensor High (Error 33)
MAP Sensor Low (Error 34)
IAC Motor Error (Error 35)
EST Failure (Error 41)
Bypass Circuit Failure (Error 42)
Knock Sensor Diagnostic (Error 43)
O2 Sensor Lean Diagnostic (Error 44)
O2 Sensor Rich Diagnostic (Error 45)
System Voltage High (Error 52)
System Voltage High (Error 53)
Battery Voltage Unstable (Error 54)
A/D Conversion Error (Error 55)

ECM Constants

Spark Reference Angle
Maximum Spark Advance
Fan 1 On Coolant Temp. Threshold
Fan 1 Off Coolant Temp. Threshold
Fan 2 On Coolant Temp. Threshold
Fan 2 Off Coolant Temp. Threshold
Coolant Temp Compensation Spark Bias
Fuel Cutoff Engine Speed
Fuel Resume Engine Speed
Fuel Cutoff Vehicle Speed
Fuel Resume Vehicle Speed
Max Knock Spark Retard
VE Table Filter Coefficient (At Idle)
RPM Threshold For VE Filtering
Main Spark Extended Slope (Deg/1000 RPM)
Min. RPM To Enable Knock Retard
Max. RPM To Enable Knock Retard
Max. Cool. Temp. For Cold AFR Table
Base Pulse Constant
Stoichiometric AFR
Initial IAC Motor Position (A/C Off)
Added Initial IAC Position Steps, A/C On
Vehicle Speed Sensor Calibration
RPM/Vss Ratio for 1st Gear
RPM/Vss Ratio for 2nd Gear

RPM/Vss Ratio for 3rd Gear
RPM/Vss Ratio for 4th Gear
RPM/Vss Ratio for 5th Gear
Minimum RPM for 1 -> 2 Shift
Minimum RPM for 2 -> 3 Shift
Minimum RPM for 3 -> 4 Shift
Minimum RPM for 4 -> 5 Shift
Maximum MAP for 1 -> 2 Shift
Maximum MAP for 2 -> 3 Shift
Maximum MAP for 3 -> 4 Shift
Maximum MAP for 4 -> 5 Shift

Tables

ECM Switch Table
ECM Constant Table
Idle Spark Advance Vs. MAP
Coolant Temp. Compensation Spark Advance
Main Spark Advance Vs. RPM Vs. MAP
Volumetric Efficiency Vs. RPM Vs. MAP
Cold Engine AFR Vs Coolant Temp. Vs MAP
IAC Motor Steps Vs. Coolant Temp.
Idle AFR Vs. Coolant Temperature
Open Loop AFR Vs. RPM Vs. MAP
Knock Attack Rate Vs. RPM (Deg/msec)
Knock Recovery Rate Vs. RPM (%/sec)
Injector Offset Vs. Battery Voltage
Target Idle RPM Vs. Battery Voltage (in Drive)
Target Idle RPM Vs. Battery Voltage (in P/N)
Target Idle RPM Vs. Battery Voltage (Manual Trans)
Target Idle RPM Correction Vs. Coolant Temp.
TCC Upper Load Upper Limit vs Vss
TCC Lower Load Upper Limit vs Vss