

Niels' Setup

MegaTune 2.25 p3

Constants - Page 1

Calculate Required Fuel - One Cylinder

Required Fuel: 11.2
5.6

Injector Characteristics

Injector Opening Time (ms): 1.0
Battery Voltage Correction (ms/V): 0.10
PWM Current Limit: 100
PWM Time Threshold (ms): 25.5

Fast Idle Control

Fast Idle: 89.9

Correction Factors

Barometric: Off

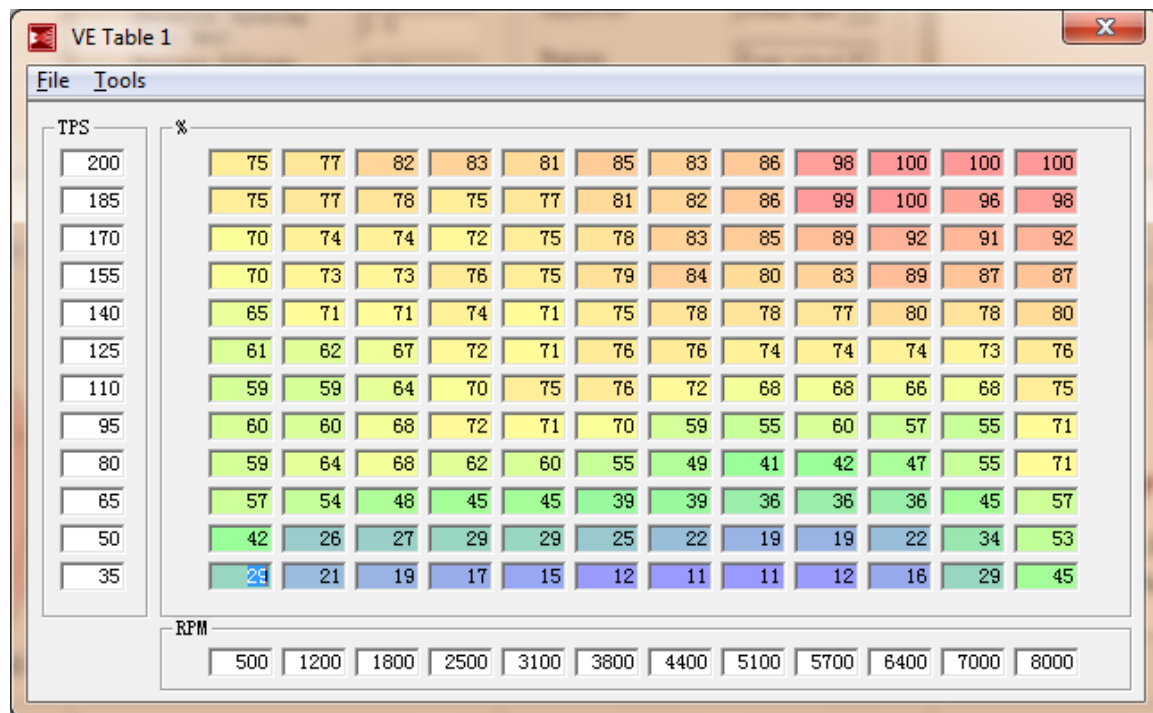
Injector Control

Control: Alpha-N
Injections Per Engine Cycle: 2
Injector: Simultaneous
Engine: Four-stroke
Number of: 4
Injector Port:
Injecto: 4
MAP Type: 250 kPa
Engine: Even fire

Fetch From ECU Burn To ECU Close

EGO Control

EGO Sensor Type: Wide band
EGO Switch Point (v): 2.293
Ignition Events or msec per Step: 20
Controller Step Size (%): 1
Controller Authority +/- (%): 15
Active Above Coolant Temp (C): 60
Active Above RPM (RPM): 100
EGO Correction Step: Ign Pulses*
Fetch From ECU Burn To ECU Close



Accel Decel Trigger dot

Accel Enrichments: TPSdot*^ (DT)

Accel Timer: Sec*^

Decay Accel Enrichment: None*^ (DT)

Accel value at end of Accel Time: 0.0

Turn Decel Enrich off: Never*^

Cut Decel Setpoint: (kPa) 255

If MAPdot:

Turn Accel Enrich off in: Never

Turn Accel Enrich off: Normal*^

F1 Fetch From ECU Burn To ECU Close

RPM Based Accel

X

RPM Based Accel is triggered as usual via MAP but it is NOT based on a rate of change of MAP or TPS. The fuel added is based on the

RPM Based Accel RPM Based

Engine Speed high (RPM)	7000
Engine Speed mid - high (RPM)	5000
Engine Speed low - mid (RPM)	3000
Engine Speed low (RPM)	500
Enrichment for high speed: (mS)	2.0
Enrichment for mid - high speed:	1.5
Enrichment for low - mid speed:	1.0
Enrichment for low speed: (mS)	0.1
MAP Threshold: (kPa/s)	300
TPS Threshold: (v/s)	0.586
Accel Time: (ms)	0.5

F1

Fetch From ECU

Burn To ECU

Close

After Start Enrichment (ASE) Settings

ASE Timer:

ASE TOTAL Time:

ASE Mode:

MAP mode during ASE:

Use Fixed ASE/MAP when coolant:

Fixed ASE/MAP Time Period:

Fixed MAP Value (kpa):

After Start Enrichment Table

-40 C	(%)	<input type="text" value="30"/>
-29 C	(%)	<input type="text" value="20"/>
-18 C	(%)	<input type="text" value="15"/>
-7 C	(%)	<input type="text" value="12"/>
4 C	(%)	<input type="text" value="10"/>
16 C	(%)	<input type="text" value="9"/>
27 C	(%)	<input type="text" value="8"/>
38 C	(%)	<input type="text" value="7"/>
54 C	(%)	<input type="text" value="6"/>
71 C	(%)	<input type="text" value="5"/>

F1

Lambda Sensor Targets

Set to 255KPa for B+G Default

Change Ego Limit above (KPa):

Change Ego Limit to (+-):

8x8 AFR Target Tables

For VE Table 1:

For VE Table 3:

Control Algorithm for AFR:

Use Target tables:

Use Enrichment EGO Switch Point:

F1

AFR Targets for VE Table 1 (AFR)

File Tools

TPS

200

185

160

135

110

85

60

35

AFR

13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
14.7	14.7	14.7	14.7	14.7	14.7	14.0	14.0	14.0
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.0	14.0
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.0	14.0

RPM

500 1500 2500 3500 4500 5500 6500 8000

Open Loop Mode

Open Loop O2 Correction: TPS

If TPS selected then go Open Loop @ 111

If KPa selected then go Open Loop @ 80

Set selection to zero for no Openloop

Restart MS after changes

F1 Fetch From ECU Burn To ECU Close

Idle Advance Settings

Idle Advance Settings

Idle advance (-10 = use map) (Deg)

Idle advance TPS threshold (ADC)

Idle advance RPM threshold (RPM)

Idle advance CLT threshold (C)

Idle advance Wait Time (sec)

Dwell Settings

Dwell control

Use: Spark output duty

Or:

Cranking dwell (ms)

Running dwell (ms)

Minimum discharge period (ms)

Note

these times are for 12V. Battery voltage is applied. At higher voltages the time is and when low it is increased

Rotary split Table - see settings

File Rotary Trailing Settings Tools

TPS

deg

106	-1	-1	-1	-1	-1	-1
105	-0	-0	-0	-0	-0	-0
80	-0	5	5	5	5	5
60	-0	10	10	10	10	10
50	-0	16	16	16	16	16
40	-0	21	21	21	21	21

RPM