

I had it on Falling edge after you said too but rising seemed to give more spark.

### More Ignition Options

Fixed Advance: Fixed timing

Use Prediction: No Prediction

Timing for Fixed Advance(degrees): 10.0

Cranking Dwell(ms): 5.0

Cranking Advance(degrees): 15.0

Toyota Multiplex: Off

Dwell type: Standard Dwell

Maximum Dwell Duration(ms): 2.1

Acceleration Compensation(ms): 4

Maximum Spark Duration(ms): 1.0

Dwell time(ms): 0.7

Dwell duty(%): 50

NOTE: Spark hardware latency should ONLY be used if you notice spark retard with increasing rpms.

Spark Hardware Latency(usec): 0

middle LED indicator: Off

Overdwell protection: Off

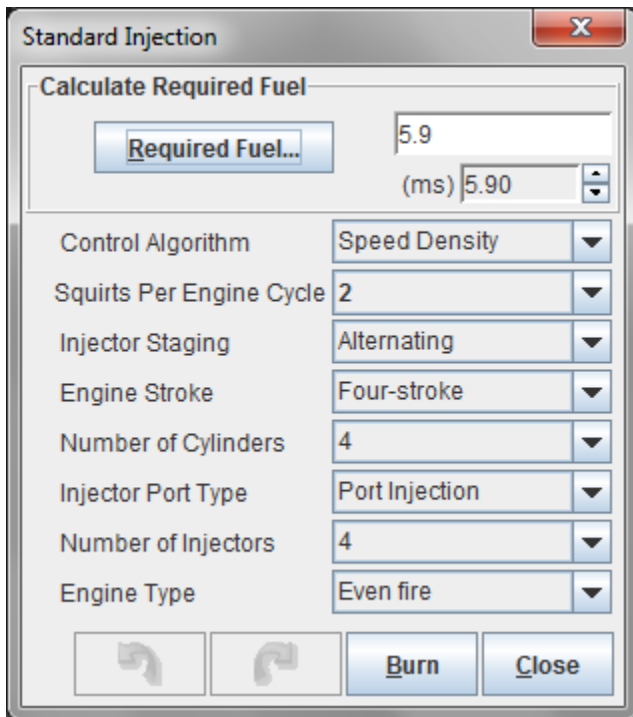
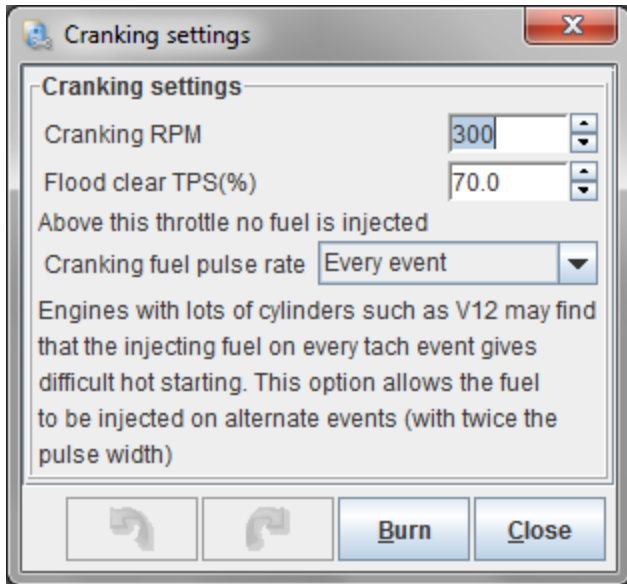
Underdwell protection: Off

**Burn** **Close**

### Spark Advance Table1

		800	1200	1500	2300	2900	3400	4000	4600	5200	5700	6300	7000
ignition advance %	230.0	15.0	15.0	15.0	18.0	18.0	15.0	13.0	14.0	14.0	15.0	15.0	16.0
	212.0	15.0	15.0	17.0	19.0	20.0	17.0	14.0	15.0	16.0	17.0	18.0	19.0
	184.0	13.0	16.0	18.0	21.0	21.0	19.0	15.0	16.0	17.0	18.0	19.0	20.0
	156.0	13.0	16.0	22.0	23.0	22.0	20.0	19.0	19.0	19.0	20.0	21.0	22.0
	128.0	16.0	19.0	25.0	26.0	26.0	23.0	22.0	22.0	22.0	23.0	25.0	26.0
	101.0	19.0	19.0	25.0	28.0	30.0	30.0	29.0	31.0	32.0	33.0	34.0	35.0
	84.0	19.0	20.0	29.0	30.0	31.0	31.0	31.0	33.0	34.0	35.0	36.0	37.0
	75.0	20.0	20.0	30.0	31.0	33.0	33.0	32.0	34.0	35.0	36.0	37.0	38.0
	55.0	25.0	25.0	22.0	32.0	34.0	34.0	34.0	35.0	35.0	36.0	37.0	38.0
	34.0	15.0	15.0	18.0	32.0	37.0	38.0	36.0	37.0	37.0	38.0	39.0	40.0
	26.0	13.0	13.0	18.0	33.0	39.0	39.0	37.0	38.0	38.0	39.0	40.0	41.0
	20.0	13.0	13.0	18.0	33.0	39.0	39.0	37.0	38.0	38.0	39.0	40.0	41.0

**Burn** **Close**



Secondary load parameters

**Secondary load parameters**

Secondary Fuel Load Disabled

Secondary Fuel multiplicative

Multiply MAP multiply

Incorporate AFRTarget don't include AFRTarget

Stoichiometric AFR 14.7

Primary Ignition Load Speed Density

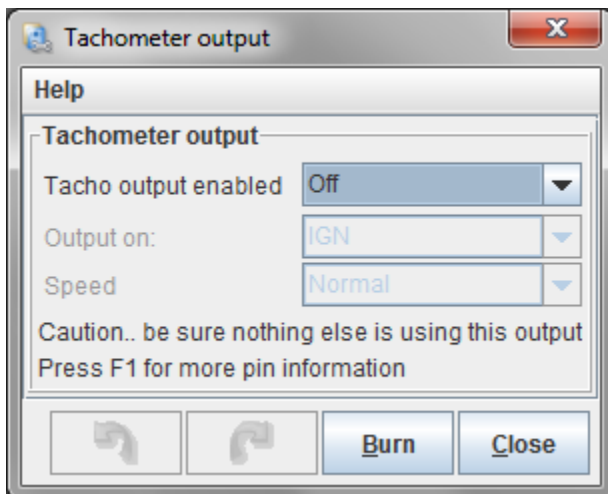
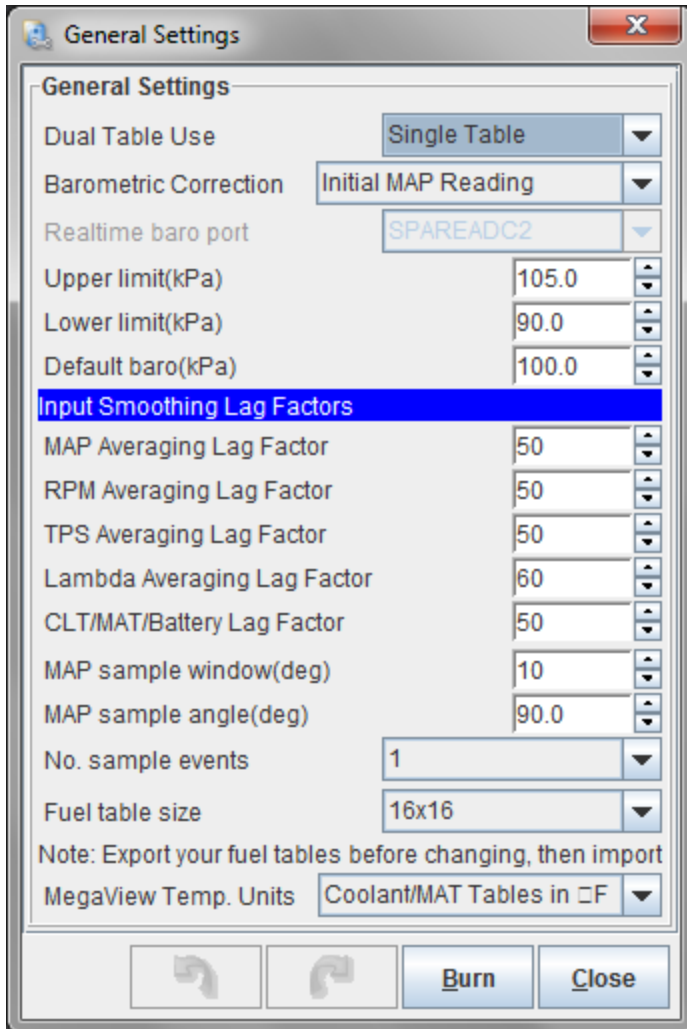
Secondary Ignition Load Disabled

NOTE: secondary ignition table is always additive

AFR table load Use primary load (Algorithm)

EAE curve load Use primary load (Algorithm)

Back Forward Burn Close



**Idle Control**

**Help**

**Idle Control**

Algorithm: PWM Closed-loop

Fast Idle Temperature(°F): 140.0

Time Step Size(ms): 2.6

Initial Time Step Size(ms): 5.1

Minimum # steps to move(steps): 1

**Start Value**: 160

Crank-to-Run Taper Time(sec): 5

Hysteresis(°F): 37.0

**Time-Based After Start**

Cold Temperature(°F): 0.0

Cold Position(steps): 120

Cold Taper Time(sec): 40

**Red settings require an MS-II reboot!**

Buttons: **Burn** **Close**

**Closed Loop Idle Valve Settings**

**Closed Loop Idle Valve Settings**

Idle Open Duty(%): 61.7

Idle Open Steps(steps): 158

Idle Valve Closed Duty(%): 7.0

Idle Valve Closed Steps(steps): 18

Idle Activation RPM adder(rpm): 300

Idle Activation TPS threshold(%): 2.0

Dashpot adder(%): 5.9

Dashpot adder(steps): 15

NOTE: Close delay of 0 means do not close

Close delay(sec): 1

Leave valve closed above:(rpm): 1500

For this number of seconds:(sec): 3

Buttons: **Burn** **Close**

**Closed Loop Idle PID Settings**

**Closed Loop Idle PID Settings**

Min Duty for PID(%) 3.1

Min Steps for PID(steps) 8

RPM with valve closed(rpm) 600

RPM with valve open(rpm) 1800

PID delay(sec) 1

Crank to run taper(s) 2

PID ramp to target time(sec) 0

PID Control Interval(ms) 60

**PID Controller Gains**

Proportional Gain(%) 7.0

Integral Gain(%) 60.0

Derivative Gain(%) 0.0

**PID lockout detection**



PID lockout rpmDOT threshold(rpm/sec) 40

PID lockout max decel load(%) 28.0

**PID disable params**

Use so that engaging clutch without throttle  
Does not leave PID running

PID disable RPMdot 1000

  **Burn** **Close**

**PWM idle settings**

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Warmup only mode



Set duty vs. temp in the duty table

Crank-to-Run Taper Time(s) 2

Valve mode Normal, 0%=off

PWM idle port Local

Valve frequency 30.5 Hz \* this setting 3  
@ 156Hz the valve works in 2% steps

  **Burn** **Close**



**Injector Characteristics** [X]

**Help**

**Injector Characteristics**



**Bank 1**

Injector Open Time(ms)	1.200	▲▼
Battery Voltage Correction(ms/V)	0.200	▲▼
PWM Current Limit(%)	100	▲▼
PWM Time Threshold(ms)	25.4	▲▼
Injector PWM Period(us)	40	▲▼

**Bank 2**

Specific bank 2 setting  ▼

Injector2 Open Time(ms)	1.000	▲▼
Battery Voltage Corr.(ms/V)	0.200	▲▼
PWM Current Limit(%)	50	▲▼
PWM Time Threshold(ms)	1.0	▲▼
Injector PWM Period(us)	66	▲▼

  **Burn** **Close**