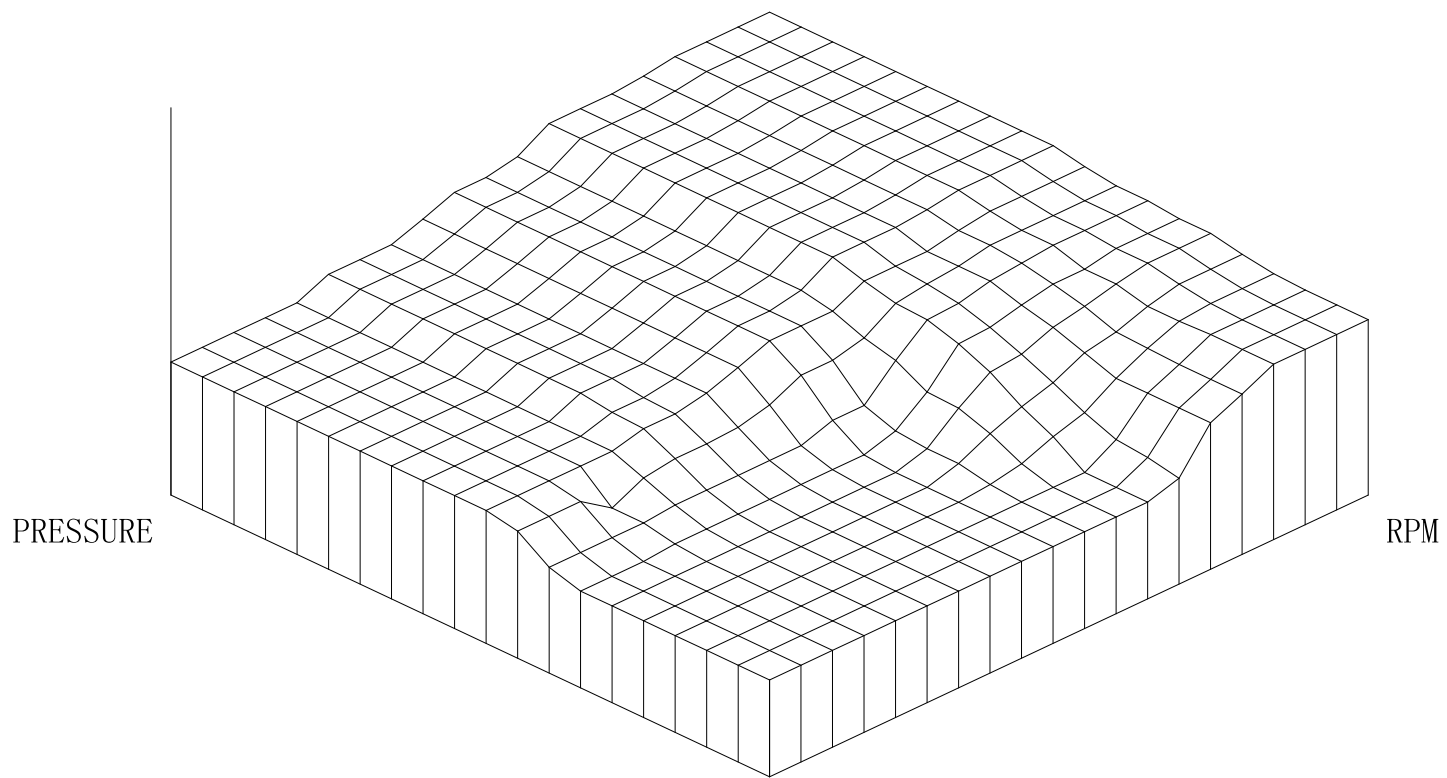


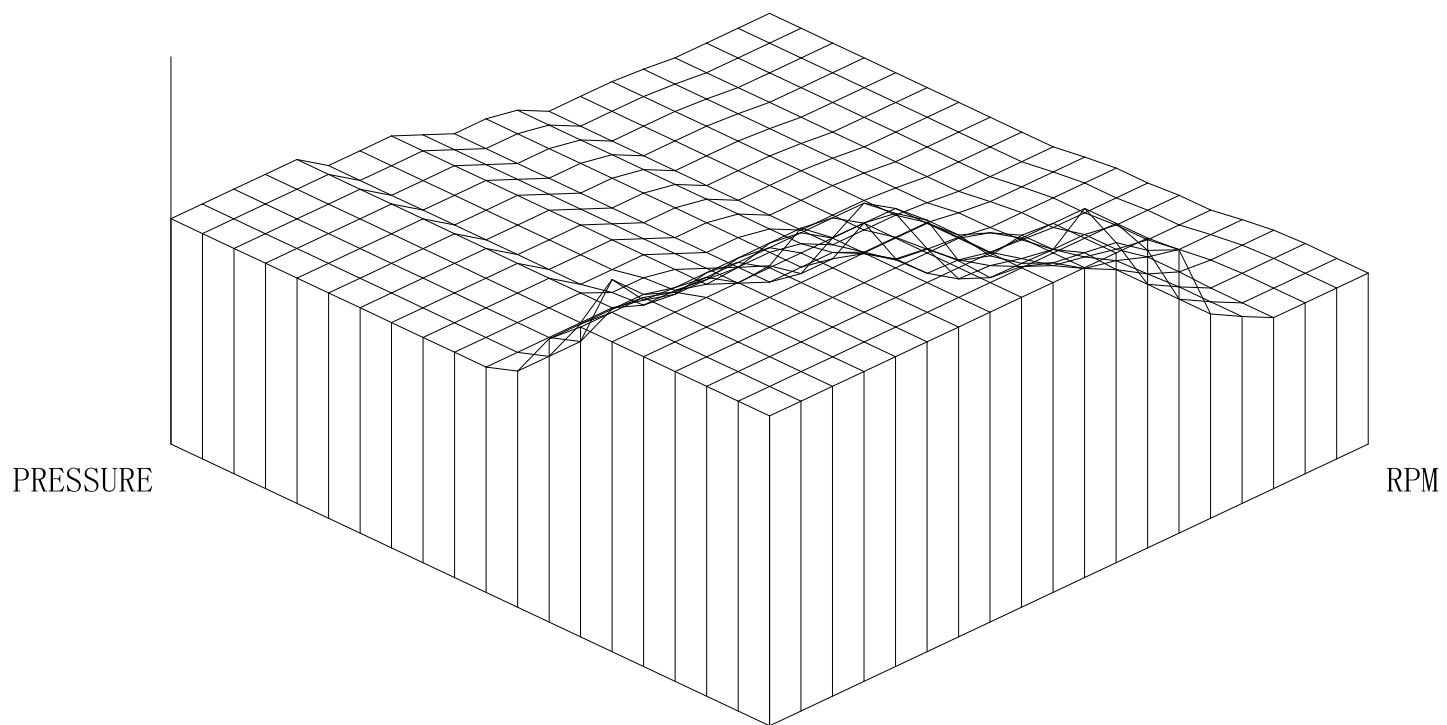
# FUEL MAP



## FUEL MAP

Cinj	40	80	120	160	200	240	280	320	360	400	440	480	520	560	600	640	680	720	760	800
1000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.023	1.129	1.164	1.203	1.203	1.203	1.203
2000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.039	1.129	1.164	1.203	1.203	1.203	1.203
3000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.047	1.129	1.164	1.203	1.203	1.203	1.203
4000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.008	1.023	1.055	1.078	1.129	1.168	1.199	1.207	1.207	1.207
5000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.023	1.063	1.094	1.117	1.156	1.172	1.199	1.219	1.219	1.219
6000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.023	1.090	1.145	1.152	1.184	1.199	1.219	1.234	1.234	1.234
7000	1.000	1.000	1.000	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.031	1.094	1.180	1.184	1.203	1.219	1.219	1.234	1.234	1.234
8000	1.023	1.023	1.023	1.023	1.031	1.031	1.031	1.031	1.031	1.059	1.059	1.137	1.203	1.207	1.227	1.234	1.242	1.242	1.242	1.242
9000	1.078	1.078	1.078	1.023	1.063	1.074	1.074	1.078	1.098	1.137	1.137	1.156	1.207	1.219	1.227	1.242	1.242	1.242	1.242	1.242
10000	1.094	1.094	1.094	1.094	1.094	1.113	1.113	1.129	1.156	1.188	1.188	1.188	1.227	1.227	1.227	1.242	1.254	1.254	1.254	1.254
11000	1.094	1.094	1.094	1.094	1.094	1.117	1.117	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
12000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
13000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
14000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
15000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
16000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
17000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
18000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
19000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270
20000	1.094	1.094	1.094	1.094	1.094	1.129	1.129	1.129	1.156	1.188	1.188	1.203	1.250	1.250	1.250	1.258	1.270	1.270	1.270	1.270

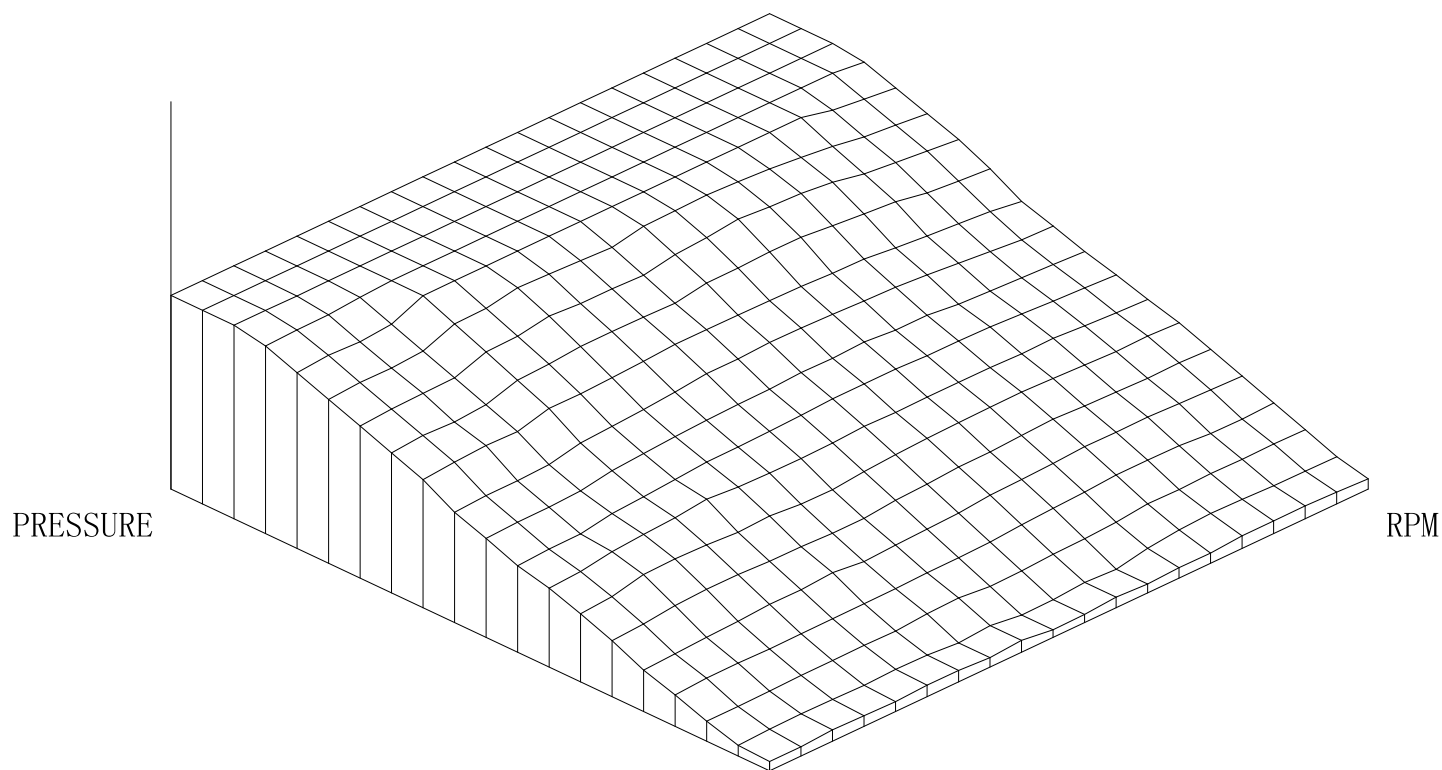
### A/F MAP



A/F MAP

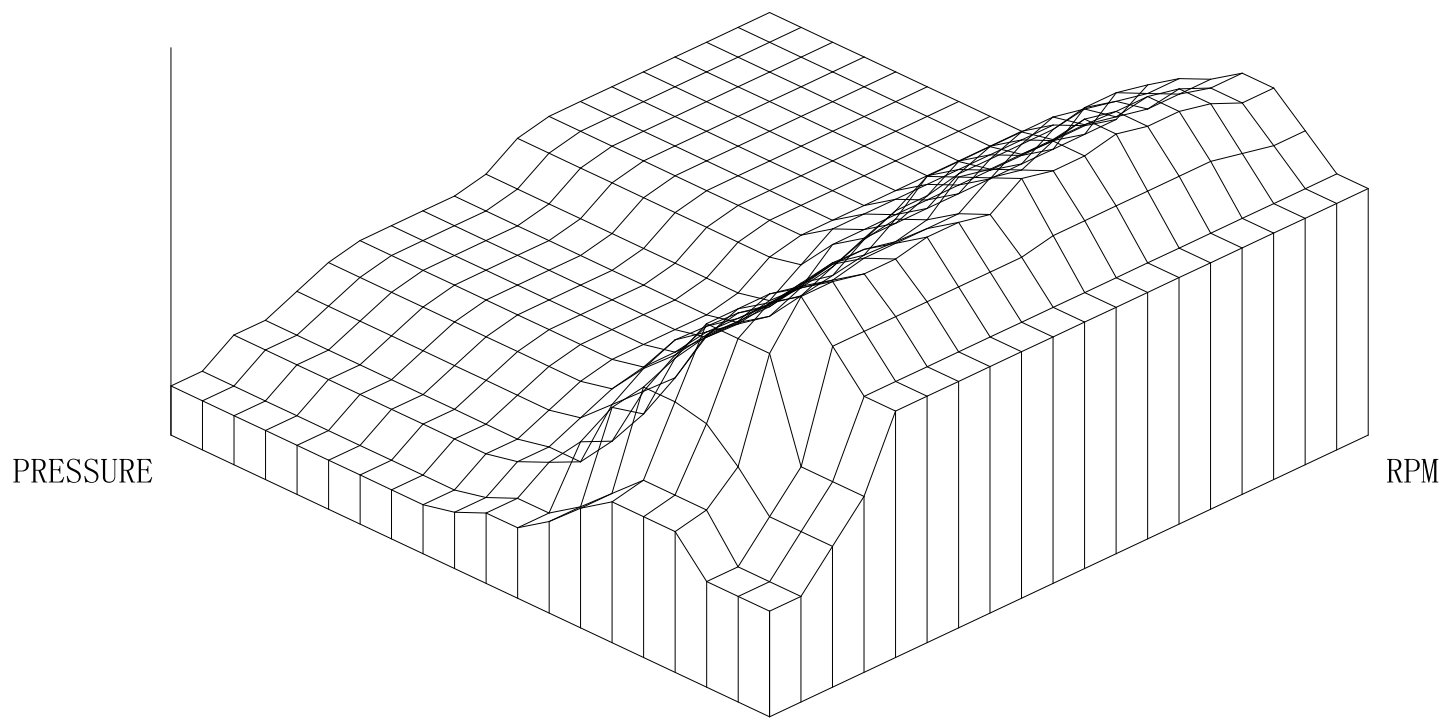
A/F	40	80	120	160	200	240	280	320	360	400	440	480	520	560	600	640	680	720	760	800
1000	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.2	12.9	12.5	12.1	12.1	12.1	12.1
2000	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.0	12.9	12.5	12.1	12.1	12.1	12.1
3000	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	13.9	12.9	12.5	12.1	12.1	12.1	12.1
4000	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.4	14.2	13.8	13.5	12.9	12.4	12.1	12.0	12.0	12.0
5000	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.2	13.7	13.3	13.0	12.6	12.4	12.1	11.9	11.9	11.9
6000	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.2	13.3	12.7	12.6	12.3	12.1	11.9	11.8	11.8	11.8
7000	14.5	14.5	14.5	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.1	13.3	12.3	12.3	12.1	11.9	11.9	11.8	11.8	11.8
8000	14.2	14.2	14.2	14.2	14.1	14.1	14.1	14.1	14.1	13.7	13.7	12.8	12.1	12.0	11.8	11.8	11.7	11.7	11.7	11.7
9000	13.5	13.5	13.5	14.2	13.7	13.5	13.5	13.5	13.2	12.8	12.8	12.6	12.0	11.9	11.8	11.7	11.7	11.7	11.7	11.7
10000	13.3	13.3	13.3	13.3	13.3	13.0	13.0	12.9	12.6	12.2	12.2	12.2	11.8	11.8	11.8	11.7	11.6	11.6	11.6	11.6
11000	13.3	13.3	13.3	13.3	13.3	13.0	13.0	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
12000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
13000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
14000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
15000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
16000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
17000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
18000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
19000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4
20000	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.9	12.6	12.2	12.2	12.1	11.6	11.6	11.6	11.5	11.4	11.4	11.4	11.4

# FUEL JET TIME MAP





# IGNITION MAP





## FUEL SYSTEM SETTING

INJECTOR CORRECTION :

	VALUE	TIME (ms)
1	1.000	0.000
2	1.000	0.000
3	1.000	0.000
4	1.000	0.000
5	1.000	0.000
6	1.000	0.000

INTAKE AIR TEMP FUEL CORRECTION VALUE :

TEMP (° C)	VALUE
70	0.917
50	0.949
30	0.988
10	1.027
-10	1.078
-30	1.128

CRANKING INJECTION AMOUNT :

TEMP (° C)	TIME (ms)
80	9.600
50	14.400
30	28.800
10	60.000
-10	120.000
-30	240.000

THROTTLE CORRECTION :

VOLT (V)	CORR
4.492	1.000
3.984	1.000
3.496	1.000
2.988	1.000
2.500	1.000
1.992	1.000

WATER TEMP CORRECTION (LO) :

TEMP (° C)	ABS PRS L	ABS PRS H
80	1.000	1.000
50	1.093	1.187
30	1.140	1.296
10	1.250	1.500
-10	1.390	1.796
-30	1.593	2.187

INJECTOR LAG TIME :

VOLT (V)	TIME (ms)
16	0.420
14	0.560
12	0.748
10	1.020
8	1.648
6	2.560

WATER TEMP CORRECTION PRESSURE (LO) :

ABS PRES	2816	9984

ACCELERATION ENRICHMENT :

RPM	ACC ENR	ACC DEC
5000	5.300	1.700
4000	4.200	1.700
3000	3.800	1.600
2000	3.600	1.000
1000	3.400	0.500

WATER TEMP CORRECTION (HI) :

TEMP (° C)	CORR AMNT
110	1.078
90	1.000

WATER TEMP CORRECTION PRESSURE (HI) :

ABS PRES	10752	4864

ACCELERATION CORRECTION COEFFICIENT :

VOLT (V)	VALUE
0.292	1.000
0.161	0.750
0.029	0.500

INTAKE AIR TEMP CORRECTION (HI) :

TEMP (° C)	VALUE
80	1.078
70	1.046
60	1.000

INTAKE AIR TEMP CORRECTION PRESSURE (HI) :

ABS PRES	10752	4864

## IGNITION SYSTEM SETTING

WATER TEMP ADVANCE CORRECTION (LO) :

TEMP(° C)	Ig TIMING
60	0
30	5
0	9
-30	12

WATER TEMP RETARD CORRECTION (HI) :

TEMP(° C)	Ig TIMING
110	6
90	0

RETURN ABS PRESSURE :

ABS PRS	10752	4864
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THROTTLE CORRECTION :

VOLT(V)	Ig TIMING
3.984	0
2.988	0
1.992	0
0.996	0

INTAKE TEMP RETARD CORRECTION (HI) :

TEMP(° C)	Ig TIMING
80	5
70	3
60	0

Ig COIL VOLTAGE DWELL :

RPM	DEGREE
10000	30
8000	30
4000	30
2000	30
1000	30
400	30

Ig COIL VOLTAGE DWELL CORRECTION VALUE :

VOLT(V)	VALUE
16	1.000
14	1.000
12	1.000
10	1.000
9	1.000
8	1.000

## OTHERS SETTING

REV SETTING :

REV LIMITER	7700
FUEL CUT RETURN RPM (A/C OFF)	1100
FUEL CUT RETURN RPM (E/L ON)	1250
FUEL CUT RETURN RPM (A/C ON)	1350
IDLE RPM (A/C OFF)	800
IDLE RPM (E/L ON)	850
IDLE RPM (A/C ON)	850

BOOST SYSTEM SETTING :

BOOST CONTROL KIT				N/A
NORMAL SOLENOID DUTY				85
*	PRESS 1	0.80	DUTY 1	48
	PRESS 2	1.00	DUTY 2	60
	PRESS 3	1.10	DUTY 3	66
	PRESS 4	1.20	DUTY 4	72

WARNING LAMP SETTING :

INJECTOR DUTY CYCLE ALARM

DISPLAY	ACTIVE
DUTY CYCLE	98.0
FLASH TIME	600

KNOCK ALARM

DISPLAY	ACTIVE
LEVEL	60
FLASH TIME	180

O2 FEEDBACK SETTING :

O2 FEEDBACK	ACTIVE
O2 FEEDBACK COEFFICIENT LIMIT	1.046

COMMANDER SETTING :

Ign Map	ENABLE
Inj Map	ENABLE
PIM Volt	ENABLE
Injector	ENABLE
Boost	ENABLE
Acceler	ENABLE
Ign/Inj	ENABLE
Cranking	ENABLE
Wtr Temp	ENABLE
Rev/Idle	ENABLE

IDLE-IG SETTING :

IDLE-IG	ACTIVE
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PRESSURE SENSOR DATA :

	TENDENCY	OFFSET
*	23318	2445
	37786	4021
	46574	5592
	43860	3289
	46574	5592

## SETTING MEMO

SETTING MEMO :

Customer	
Work day	2010 / 12 / 17
Weather	
Atmospheric pressure	
Temperature	
Vehicle name	
Vehicle Type	
Engine Type	

Engine

Piston diameter	
Stroke	
Displacement	
Head gasket	
Compression ratio	

Cam shaft

Manufacturer	
Duration(In)	
Lift(In)	
Valve Timing(In)	
Duration(Ex)	
Lift(Ex)	
Valve Timing(Ex)	

Intake Cleaner	
Intercooler	
Throttle diameter	
Intake Manifold	
Turbocharger	
Extension	
Front Pipe	
Exhaust Manifold	
Muffler	
Catalytic Converter	
Pressure sensor	
Injector	
Fuel Pressure	
Fuel pump	
Spark Plug	
Other	