

Software Installation and Calibration Manual

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1. Introdução

requisitos de configuração do computador

Sistema para computador portátil: Windows XP、Windows 7、Windows 8、Windows10

Capacidade do disco rí gido: 10G

Resolução do monitor: maior que 1024 * 768

2. Instruções de instalação e desinstalação do software 2.1 Instalação de software

Abra o CD ou o pacote compactado como o mostrado abaixo:

8磁盘 (D:) ▶ 5.0 资料 ▶ ECU_V5.0_OBD_V1.0t1	9 • ECU_V5.0_OBD_	V1.0t19 🕨	
共享 ▼ 刻录 新建文件夹			
名称	修改日期	类型	大小
鷆 bin	2017/4/4 16:17	文件夹	
퉬 license	2017/4/4 16:17	文件夹	
퉬 supportfiles	2017/4/4 16:19	文件夹	
dp.pmf	2017/4/4 16:19	PMF 文件	2 KB
nidist.id	2017/4/4 16:19	ID 文件	1 KB
🚽 setup	2014/6/6 9:08	应用程序	1,360 KB
📰 setup	2017/4/4 16:19	配置设置	10 KB

Clique duas vezes no "setup", o programa será instalado automaticamente.

2.2 Desinstalação do software

Passos de desinstalação:

Abra o painel de controle, escolha "Adicionar ou remover programas"

N 🖸 > 控制面板	> 程序 > 程序和功能		~ (り 搜索"程序.	. ,o
页 約更新 Windows 功能	卸载或更改程序 若要卸载程序,请从列表中将其选中,然后单击"卸载"、"更改	""或"修复"。			
	组织 ▼ 卸載/更改				?
	名称 ^	发布者	安装时间	大小	版本
	😺 Bonjour	Apple Inc.	2016/9/13	4.03 MB	3.1.
	👼 Bullzip PDF Printer 10.24.0.2543	Bullzip	2016/6/28	7.33 MB	10.
	🌺 Conexant HD Audio	Conexant	2016/10/8		8.6
	🛄 Dolby Digital Plus Advanced Audio	Dolby Laboratories Inc	2016/10/8	5.98 MB	7.6
	Tel: dso-220 usb(V5.0.0.0)	oem	2016/9/12		5.0
	ECU Calibration Software ExonGas	ExonGas	2017/2/23	6.45 MB	1.0
	ECU_V5.0	Dòàà⁻á∣ óDT1	2017/4/8		1.0
	EXON_ECU_Debug_Tool version 1.0	Shanghai E-xon Power Co., Ltd	2016/9/2	48.0 MB	1.0

Escolha "ECU_V5.0" na lista de programas, clique no botão direito para escolher " Alterar/eliminar"

Depois de confirmação, o software será desinstalado com sucesso.

2.3 Instalação do driver USB.

Passos de instalação:

Clique duas vezes no driver (como mostrado na imagem 1), escolha "Remover" (como mostrado na imagem 2)



Imagem 1				
	2017/2	/16 14:51	应用程序	1
Imagem 2				
FTDI CDM Drivers				
F G G G G G G G G G G G G G G G G G G G	FTDI CDM Drivers			
	< Back Extract Cancel			

Escolha "Aceito este acordo" e clique em "Avançar" (como mostrado na imagem 3)

Imagem 3

设备驱动程序安	装向导
设备驱动程序安装 许可协议	
×.	要继续,请接受以下许可协议。 要阅读全部协议,请使用滚动条 或技 Page Down 健。 IMFORTANT NOTICE: PLEASE READ CAREFULLY BEFORE INSTALLING THE RELEVANT SOFTWARE: This licence agreement (Licence) is a legal agreement between you (Licensee or you) and Yuture Technology Devices International Limited of 2 Seaward Place, Centurion Business Park, Glasgow G41 HH, Scotland (UK Company Number SC136640) (Licensor or we) for use of driver software provided by the Licensor (Software).
	 ● 我接受这个协议(Q) ○ 我不接受这个协议(Q)
	< 上一步 (B) 下一步 (R) > 取消

Depois de "Feito", o driver será instalado com sucesso (como mostrado na imagem 4) .

Imagem 4

设备犯动程序安装问导		
	正在完成设备驱动看	序安装向导
	此计算机上成功地安装了此3 现在您可以将设备连接到此1 请先阅读。	&动程序。 十算机。如果此设备附有说明,
	驱动程序名	状态
	✓ FTDI CDM Driver Pa	可以使用了
	✓ FTDI CDM Driver Pa	可以使用了
	〈上一歩(8)	完成 取消



Conecte o computador portátil com o cabo USB. Quando no Gerenciador de Dispositivos exibe o COM, significa que o cabo USB se comunica com o computador portátil com êxito (como mostrado na imagem 5).

magem 5	
文件(上) 操作(Δ) 查看(V) 帮助(H)	
▲ 🚔 PC201411191055	
▷ 📲 DVD/CD-ROM 驱动器	
▷ · 😋 IDE ATA/ATAPI 控制器	
▷ - 🔲 处理器	
▷	
▲ ····································	
USB Serial Port (COM3)	
▶ 別 鼠标和其他指针设备	
: □ □ 通用串行总线控制器	
▷·💇 网络适配器	
▷·1 ● 系统设备	

3. Instruções de funções básicas do software

3.1 Página Principal do Software





Instruction of the function block and	functional description
---------------------------------------	------------------------

Communicati on status	Display the connection status of the software and ECU, click it to restart the connection
ECU status display	Display the status of "Petrol or Gas" status from ECU, left click can change between the petrol mode and gas mode , double right click can be forced to gas mode
Version NO.	Display the ECU version No
	Main function area
Configuraion	ECU setting and calibration
Display	Display main data
Wave	Waveform display various data from the ECU
Auto- calibration	Do Automatically calibration on the parameters to match with the vehicle.
Diagnosis	Display the gas system running status
Save the data	Save the parameters of the current vehicle settings (It should be in the normal communication condition between ECU and software)
Load data	Load and save Settings parameters (It should be in the normal communication condition between ECU and software)
Exit	Exit the software

3.2 The Basic Setup Instructions



Function selection area: Choose the function button to enter the corresponding function module.

Data selection area: Set the parameter data in the function module.

Data displaying area: display Real-time data from engine.



3.2.1 The Basic Parameters

The function block mainly set the system sensor configuration

a. Engine cylinders: 3 or 4 cylinder two options, choose according to the actual circumstance of the car.

b. Engine type: Natural Aspirator or Turbo Charge two options, choose according to the actual circumstance of the car.

c. Start and stop mode: when the car with a start-stop function are running the start-stop function, if the engine stops running more than 5 minutes, the engine start with oil and then to change to gas; if less than 5 minutes, the engine will start directly with gas.

d. Fuel type: CNG or LPG two option, choose according to the real conditions.

e. RPM signal: ignition signal or petrol signal two opiton, choose according to actual connection; the system defaults to ignition signal, to make RPM signal more accuracy.

f. Ignition signal type, Choose 5V or 12V, according to the vehicle point signal voltage, ECU can't collect right RPM signal if Choose wrong.

g. Ignition coil type: single ignition coil (independent ignition) or double ignition coil optional ignition (a group) two option, choose according to the actual vehicle; to adjust the parameter to make RPM in software same with car dashboard RPM.

h. Temperature reducer signal:4.7K or 10K two option, the system defaults to 4.7K.

i. Injector Type: injector type installed and injector type choose in software should be same, otherwise it will be damaged, the system defaults to E-XON_VIT_V.

EXON_VIT_V 🔫
✓ EXON_VIT_V
Matrix
Rail_2Ω
Rail_3Ω
VALTEK_2Ω
VALTEK_3Ω
Tomasetto_2Ω
Tomasetto_3Ω

j. Switch type: LED switch or digital switch two options, choose according to the real conditions. If system use digital switch and high pressure sensor, please Choose digital. If system use LED switch and meter, Choose LED.

k. Gas level sensor type





HPS01 is CNG high pressure sensor, power voltage 5V, output signal 0.5-4.5V.

G02-3 is CNG pressure gauge, power voltage 5V, output signal 5V-0V

AEB1050 is LPG sensor , resistance range 4.7 kilohm.

AEB1090 is LPG sensor , resistance range 0 to 90Ω .

			切换词	殳 置		\otimes
基本参数		油转气			高/低转速运	ŝŤ
切换设置	油转气转速[rpm]	500		自动转油转速[rpm]	2100	
燃气修正表	油转气水温	20	-	自动转油脉宽[ms]	10	•
高级功能	启动后切换延时时间[s]	5	-	最低转速设定[rpm]	功能关闭	•
ECU复位	油转气最低燃气压力[bar]	0.0	-	低转速运行设定	使用燃油	-
OBD 3 3	油转气方式	加速切换	-		气转油	
	油转气顺序	顺序切换	-	自动转油燃气压力[bar]	0.0	•
OBD修正						
080	转速	喷油脉宽	喷气脉宽	燃气压力	水温	ECU模式
	0 OBD状态 Failed	0.00 长期修正 0.00	0.00 短期修正 0.00	0.00 MAP 0.00	0 气温 0	· 細 楔 式 氧信号 0.00

3.2.2 change over

Change over is the necessary conditions from petrol to gas or gas to petrol.

1. Petrol to gas

a. Engine speed: The minimum RPM of the engine from petrol to gas, the system defaults 1500rpm / min. Fuel will be automatically changed to gas from petrol when RRM is more than 1500 rpm/min.

b. Reducer tempt: Engine's Minimum water temperature requirement from petrol to gas, the system defaults 40° C.

It means reducer temperature must reach to this setting value, then the engine can change to gas.

-- If setting temperature too low, engine can't run normally because reducer preheating not enough make the gas outlet is not enough.

-- If setting temperature too high, the engine change from petrol to gas time will be delayed.



c. Overlapping time: The Minimum waiting time from engine starting (petrol) to gas, the system defaults to 10s.

d. Minimum Gas pressure from Petrol to gas: Gas pressure requirement from petrol to gas. the system defaults 1.8bar for CNG and 1.4bar for LPG.

e. Change over type

RRM accelerate: It means when engine RPM exceeds engine speed setting, the fuel will change from petrol to gas.

RPM deceleration: It means when engine RPM exceeds the engine speed setting, then goes down to engine speed setting, the fuel will change from petrol to gas.

f. Change sequence

Sequential switching: changing from petrol to gas according to engine cylinder sequence

Simultaneous switching: each cylinder of engine change from petrol to gas at the same time, usually we can try this function when vehicle appears shaking from petrol to gas.

In the process of engine from petrol to gas, gas ECU first check whether the water temperature reaching to the setting value and then check minimum gas pressure reaching to the setting value. After they both reaching to the setting value, the red and yellow lights of the switch both flash and warn at meantime. Press the accelerator, engine RPM reach setting speed. After all the requirements are met, the engine will change the petrol to gas.

2. Operation at minimum/maximum

a. Petrol Use of Engine Speed

Switch to petrol automatically when RPM exceed the setting RPM

b. Petrol Use of Injection Time

Switch to petrol automatically when petrol injection time exceed the setting petrol injection time

c. RPM for identifying

Set the minimum petrol RPM

d. RPM minimum Operation

Petrol engine is in petrol model when RPM under the setting RPM, switch to gas when RPM exceed the setting RPM

Return to petrol switch to petrol when RPM under the setting RPM, switch to gas automatically after 20 cycles in petrol

3. Gas to Petrol



Minimum gas pres(bar): When the gas pressure is lower than setting value, the engine will change from gas to petrol, the system defaults 1.2 bar for CNG, 0.8 bar for LPG.

3.2.3 Map calibration table

Map calibration table: calibrating the gas injection time.



MAP表												
Tinj/RPM	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500
2.0	0	0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0
3.5	0	0	0	0	0	0	0	0	0	0	0	0
4.5	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0

a. MAP calibration

X-axis : engine speed(rpm)

Y-axis : petrol injection time (ms)

Z-value: correction of Gas injection time(%)

The green EspBox in MAP table display the engine RPM and relative position of the injection time.





MAP Table calibration ways:

Click and hold the left mouse button to drag the mouse to select which we need to modify the area, release the left mouse button pop-up dialog according to fill in the set values. Software " relative increase" and "absolute input" button, click on the "relative increase" button, fill in the values will be stacked to MAP each selected parameters (enter the same as the function of " relative increase"), click on the "absolute input" button, each parameter value of the selected area will be set to fill in the values.

If we need revise a single parameter in MAP table, double-clicking the parameter with the left mouse button will appear two arrows, arrow up is to increase, arrow down is to reduce, to adjust to desired values by clicking on the arrow.



b. main ratio: The correction percentage of gas injection time under all operating conditions (%)

c. MAP Reset

Restore the MAP data to factory Settings

d. Offset calibration



The gas injection time can be adjusted quickly according to the different petrol injection time, to meet the needs of engine under different conditions. It can solve the car engine under the same conditions but speeds under different conditions of motivation and emissions.

7							燃气	修正表							6	3
	基本参数															
	切换设置	<u>偏移修正表</u> Plnj(ms)	0.0	2.0	3.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0		
	燃气修正表	Ginj(ms)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	高级功能															
	ECU复位															
	OBD通讯															
	OBD修正	MA	P表		偏移作	爹正		水温修	Œ	压力	り修正表	5	燃气温度	度修正表		
	080	转速		喷油	廠	喷	气脉宽		燃气压力		水温		ECU	模式	_	
		0 OBD状态 Failed	Ş.		6 修正 10	短	0.00 期修正 0.00		0.00 MAP 0.00				· 油1 氧(0	與3、 信号 .00		
		L														-

PInj(ms) : petrol injection time (ms)

GInj(ms) : Gas injection time (ms)

GInj(ms)= PInj(ms)*K (adj) +b (offset)

GInj(ms)= PInj(ms)*K (adj) +b (offset)

Glnj(ms)= Plnj(ms)*K (adj) +b (offset)

e. water temperature calibration

						燃气	修正表	:						0
基本参数														
打拍设罚	水温修正表													
初天改重	J J	20	30	40	50	60	65	70	75	80	85	90	100	
燃气修正表	%	86	90	95	100	100	100	100	100	100	100	100	100	
高级功能														
ECU复位														
OBD通讯														
OBD修正	MAP	表		偏移信	₿Æ		水温修	E	压力	的修正表	٤ ا	然气温度	安修正表	
080	转速		喷油脉	宽	喷	气脉宽		燃气压力		水温	<u>.</u>	ECU	模式	
	0 OBD状态		0.00 长期修	STF.	10	0.00 期修正		MAP	-	「温		100 A	法式	
		-		-	766	control data		10767	-	-		73		

X-axis: reducer temperature



z-axis: Gas injection time revised (%), due to the different temperature under the same pressure but gas density difference, according to the change of the pressure reducer temperature, corresponding correction gas injection time.(at high temperature, gas density is small, low temperature, gas density)

°C: engine water temperature

% : gas injection time correction

According to adjusting the different engine water temperature, due to the water temperature decreases, the density of gas will increase and the gas injection correction will decrease accordingly. Guaranteeing the stability of engine in low temperature area is also beneficial to reduce the gas consumption.

			:	燃气修正表			\otimes
基本参数				-			
切换设置		压力修正表 MAP/GasP(bar)	1.0	1.5	2.0	2.5	
燃气修正表		0.3	100 100	100 100	100 100	100 100	
高级功能		0.8	100 100	100 100	100 100	100 100	
							*
ECU复位							
OBD通讯							
OBD修正	MA	P表	偏移修正	水温修正	压力修正	表然气温	度修正表
090	转速	喷油脉。	t 喷气	病 燃	〔压力 水	温 EC	U模式
a ⊕>ô	0 OBD状え	0.00 5. 长期修i	0.0 E 短期(0 参正 N	0.00 MAP ==	0 ¥1 温	低信号
	Failed	0.00	0.0	0 0	0.00	0	0.00

f. Pressure calibration

X-axis : gas pressure (bar)

Y-axis : MAP pressure (bar)

Z value :correction value of gas injection time (%)

Because the gas output pressure is a dynamic process, the gas density increases relatively when the output pressure is high, so it is necessary to attenuate the gas injection time to make the lower output pressure to reduce the gas density. It is necessary to increase the gas injection time。 CNG normal setting pressure is 1.8bar, LPG is 1bar.

g. T.Map calibration



7							燃气	修正表							\otimes
	基本参数														
	切换设置	燃气温度修 ℃	E表 20	30	40	50	60	65	70	75	80	85	90	100	
	燃气修正表	%	86	90	95	100	100	100	100	100	100	100	100	100	
	高级功能														
	ECU复位														
	OBD通讯														
	OBD修正	м	AP表		偏移	修正		水温修	E	压力	力修正表	2	燃气温度	妾修正 表	
	080	转速		喷油	脉宽	喷	气脉宽	_	燃气压力		水温		ECU Sth :	模式 端 ↓	
		OBD状 Eaile	态 d	长期	修正 00	短	期修正 0.00		MAP		气温		· 祖 氧 0	候 信号 00	
				0.0			0.00	_	0.00					.00	

X-axis :gas temperature ($^{\circ}$ C)

Z value :correction value of gas injection time (%)

As the gas is constantly flowing and changing , the gas temperature is not a constant value, when the temperature decreases, the density of gas will increase and the gas injection correction will decrease accordingly. The density of gas will decrease as the temperature increase, and the gas injection correction will increase accordingly.

3.2.4	More function	1:					
			高级功能	197			\otimes
	基本参数						
	切换设置	喷射方式	无	-			
		额外喷射时间	0.0ms				
	燃气修正表	额外喷射	打开	-			
	高级功能	额外喷射灵教度 —		0.0 ms	+		
	ECU复位	燃气精态修正 💳		70 %	+		
	OBD通讯	燃气泄漏传感器	无	-			
	OBD修正	清除原车故障码	打开	-			
	090	转速 喷油脉宽	喷气脉宽	燃气压力	水温	ECU模式	
		0 0.00 OBD状态 长期修正	0.00 短期修正	0.00 MAP	0 气温	<u>油模式</u> 氧信号	
		Failed 0.00	0.00	0.00	0	0.00	

a. Anticipate the Injection sequence: It has the option of none,1,2,3, adjusting through these 3 selection when injection pipe is longer or car jerk in constant speed.

b. Extra-Injection ident time: This function is to set up ECU identify additional injection time, when the injection time is less than the set value ECU judgement for additional injection.



Additional injection time set judgment method: in the process of cars in urgent to accelerating, the dot in the map table occasionally suddenly from the big Tinj.petrol suddenly jumping to the small Tinj.petrol, the observed value of Tinj is the additional injection time Value.

c. Extrainj: It will filter out the petrol extra-injection signal when choose "cutting". It will appear "Extrainj sensitivity" when choose "open", ECU will calculate according to the petrol extra-injection signal, Injection time = Extra-Injection time + Extrainj sensitivity time.

d. Gas Transition Adjust: deal with the injection time when rapid acceleration. In general, CNG less, LPG more. Adjusting coverage is 70%-130%, 70% means injection time decrease by 30%, 130% means injection time increase by 30%

e. Gas leakage alarming: It needs match with the gas leak sensor. When the gas leak, the switch will make warning until the leak signal disappear.

f. Reset errors: It has the option of enable or disable, If Choosing " enable", It can clear the original ECU inner fault code.

3.2.5 Reset ECU:

To restore the ECU factory Settings

3.2.6 OBD learning:

			OBD修	Æ			\otimes
基本参数							
切换设置		OBD自学习	打开	-			
恢复修正表		自学习下限	-205	· · ·			
λία ψ <u>1</u> 29×11, 4×		日学习主張	-207				
高级功能		日子与木麻					
ECU复位			恢复自	学习值			
OBD通讯							
OBD修正							
000	转速	喷油脉宽	喷气脉宽	燃气压力	水温	ECU模式	
a (€2) @	0 OBD状态	0.00 长期修正	0.00 短期修正	0.00 MAP	0 气温	<u>油模式</u> 氧信号	
	Failed	0.00	0.00	0.00	0	0.00	

OBD learning: used for setting OBD learning parameters.

A. Real-time Cali. Choose Enable or Disable to open or close OBD learning function.

B. Self-learning min: the maximum value of gas ECU injection time in the direction of decreasing is -20%, and the defaults is -10%

C. Self-learning max: the maximum value of gas ECU injection time in the direction of increasing is +20%, and the defaults is +10%

D. Self-learning signal



STFT: Short Term correction (%)

STFT_LTFT :Short Term correction (%)+Long Term correction (%)

3.2.7 OBD link:

			OBD通	讯		(\otimes
基本参数		OBD通讯方式	无		•		
切换设置		OBD地址类型	物理如	<u></u>	-		
燃气修正表		扫描进度					
高级功能		ž	E本页面参数更改后需 OBD 自 ž	<u>读于钥匙才能正确生</u> 动扫描	效.		
ECU复位							
OBD通讯							
OBD修正							
	转速	喷油脉宽	喷气脉宽	燃气压力	水温	ECU模式	7
	0 080社本	0.00 长期终天	0.00 結開除正	0.00 MAD	0 (3)	油模式	
	Failed	0.00	0.00	0.00	0	0.00	

OBD link: Gas ECU communicate with original ECU through OBD connector.

If the communication protocol of original ECU is not clear, you can choose "OBD automatic scanning" software try to connect to original ECU automatically. It will appear connection success prompt after the connection!

If the communication protocol of original ECU is clear, the corresponding communication protocol can be selected manually, which is more efficient.

Pay attention: After connection, we must turn off the key and wait change over switch to go out, then open the key door, Only this way internal communication protocol of gas ECU be modified successfully. These are Normally OBD communication protocol method.

OBD address type: Generally, to use the defaults "physical address". If the above communication protocol is all fault connecting, you can modify the OBD address type to "broadcast address" to connect.

ISO15765_11B_500K_CAN ISO15765_29B_500K_CAN ISO14230_5B_KL ISO9141_5B_KL ISO14230_Fast_KL

OBD communication methods on general for five as bove.

3.3 Real-time data:





Engine runtime key parameters real-time display, easy to observe the engine operation.

3.4 Wave:



Selected the observe signals which we needed (check), the corresponding signal information will be displayed. If we check the "file save", and click "wave stop", the excel will appear, which will record the data from software.

3.5 Auto – calibration:



	● 自动标定	\otimes
4	A A A A A A A A A A A A A A	
	开始结束	

Auto-calibration : software and gas ECU automatic matching process of the vehicle.

The system will start the Auto –calibration while the water temperature is more than 60 $^\circ\!C$. according to the instructions to run the throttle.

Before the Auto-calibration, it need do a preliminary matching the engine power with the hole of rail injector nozzle. As the following table.

Injector aperture and engine power corresponding diagram

CNG

Nozzle: Diameter: boquilla	Signal cyl. Power (kw)								
diámetro	10kw-15kw	15-20kw	20-25kw	25-30kw					
VIT-V 2 Ω	1.6—1.8	1.8—2.2	2.2-2.4	2.4—2.8					
VIT-V 3 Ω	1.6—1.8	1.8—2.2	2.2—2.4	2.4-2.8					
MATRIX	1.8—2.0	2.0-2.4	2.4—2.6	NA					
RAIL 2 Ω	1.6—1.8	1.8—2.2	2.2—2.4	2.4—2.8					
RAIL 3 Ω	1.6—1.8	1.8—2.2	2.2-2.4	2.4-2.8					
VALTEK 2 Ω	1.6—1.8	1.8—2.2	2.2—2.4	2.4—2.8					
VALTEK 3 Ω	1.6—1.8	1.8—2.2	2.2—2.4	2.4-2.8					
TOMASETTO 2 Ω	1.6—1.8	1.8—2.2	2.2—2.4	2.4-2.8					
TOMASETTO 3 Ω	1.8-2.2	2.2-2.4	2.4—2.6	2.6—2.8					



LPG

Nozzle: Diameter: boquilla	Signal cyl. Power (kw)								
diámetro	10kw-15kw	15-20kw	20-25kw	25-30kw					
VIT-V 2 Ω	1.5—1.7	1.7-2.1	2.1-2.3	2.3—2.7					
VIT-V 3 Ω	1.5—1.7	1.7-2.1	2.1-2.3	2.3-2.7					
MATRIX	1.7—1.9	1.9-2.3	2.3—2.5	NA					
RAIL 2 Ω	1.5-1.7	1.7-2.1	2.1-2.3	2.3-2.7					
RAIL 3 Ω	1.5—1.7	1.7-2.1	2.1-2.3	2.3-2.7					
VALTEK 2 Ω	1.5—1.7	1.7-2.1	2.1-2.3	2.3-2.7					
VALTEK 3 Ω	1.5—1.7	1.7-2.1	2.1-2.3	2.3-2.7					
ΤΟΜΑSETTO 2 Ω	1.6—1.8	1.8-2.2	2.2—2.4	2.4—2.8					
TOMASETTO 3 Ω	1.7—2.1	2.1-2.3	2.3—2.5	2.5-2.7					

3.6 Diagnosis



Fuel injection signal status: show gasoline injection signal collecting, whether it is right the green signal collected, red no collected signal.

Gas injection allowed: The button of selecting the corresponding cylinder can close the injection of this cylinder, and open the corresponding petrol injection signal. Green is normal injection, red is closed injection.

Fault code table: displaying the gas system component failure.

3.7 Save the data:





Save gas ECU data to PC.

3.8 load data:

To save PC data is loaded into the gas in the ECU.







Click Exit to close the software.







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