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Disclaimer

- To take full advantage of the unit, you should be familiar with the engine.
- All information, illustrations, and specifications contained in this manual are based on the latest information available at the time of publication. The right is reserved to make change at any time without notice.

This unit is made for the purpose of persons who have special techniques and certifications.

Safety Precautions

Read all service procedures and precautions, installation instructions and equipment operating manuals thoroughly. Failure to observe these precautions, or the improper use of equipment, could result in property damage, serious injury or death. Never allow improperly trained personnel to perform these procedures or operate the equipment.

- Please read the operating instructions and make sure you understand them before you begin to operate CFC-401. Keep this manual with CFC-401 at all times.
- Remember to connect the DC12V power first before using the unit and then remove the fuel hoses from the engine to avoid fire by lighting.
- No naked fire during cleaning, for the detergent is volatile and flammable fluid.
- Avoid breathing the fluid mist from the CFC-401 and vehicle engine.
- CFC-401 should be placed in a well-ventilated room without direct sunshine.
- Engines produce carbon monoxide, which is a kind of odorless and poisonous gas, and can lead to serious injury. Keep service area well ventilated, or attach the vehicle exhaust system to an exhaust disposal system.
- Avoid contacting with hot surfaces such as the exhaust manifolds and hoses, radiator, etc.
- Apply the parking brake and block the wheels before testing or repairing the vehicle. It is especially important to block the wheels on front drive vehicles because the parking brake does not hold the drive wheels.
- Wear safety glasses.
- Wrap the connector with a tower when disconnecting the fuel hose under pressure to avoid fuel leakage or burns.
- Clean CFC-401 whenever the detergent spills or leaks.
- Do not start CFC-401 if there is no detergent inside the fuel tank.
- Open the tank cap inside the engine before cleaning.
- When the unit is not in use, make sure the power switch is in closed state.

Table of Contents

Introduction 2
1.Usage 2
2.Functions 2
3.Features 2
4.Working principle 2
5.Specifications 2
Structure 2
1. Outline 2
2. Overall structure 3
2.1 List for replaceable parts 4
3. Control panel 4
4.Installation Environment 5
5. On-vehicle cleaning adapters delivered with the unit(see Appendix 1) 5
Operation illustrations 5
1.Main menu 5
2. Pressure test menu 5
3.Pipeine connection 6
4.Cleaning engine fuel system 7
4.1 Cleaning procedures 7
5.Test 7
5.1 Pressure and flow test 8
5.2 Max. pressure of fuel pump 8
5.3 Hold pressure test 8
6. Draining fuel 8
7.Database inquiry 9
8.System setting 9
8.1 Backlight setting 10
8.2 Contrast adjusting 10
8.3 Language setting 10
8.4 Unit info 10
Maintenance 10
1. Daily Maintenance 10
2. Periodical maintenance 10
Troubleshooting 10
Appendix 1: On-vehicle adapters delivered with the unit ..11
Appendix2: Table of Fuel Pressure 13

Introduction

With development of automobile industry, the engines are designed with more and more complicated fuel measurement and combustion control. The more complicated and precise the engine becomes, the lower the engine's relative trouble tolerance becomes. When the deposits inside the engine is accumulated to some certain degree, the fuel supply system of the engine may become unsmooth, and cause the engine power decreased, the acceleration lagging, shaking, fuel wasting, difficult starting, intermittent flameout, emission of exhaust gases, and high temperature, etc., which may at last reduce the vehicle drivability.

Modern automobiles employing Electronic Fuel Injection systems require accurate control of fuel pressure and flow rate. If the pressure or flow characteristics fall outside manufacturer's specifications, engine performance will be affected, leading to the situations like engine can't be started or fuel consumption goes abnormally high, etc. Therefore, it is necessary to test the fuel system of an engine to ensure a normal operation of the vehicle during each interval period between two services. Failure to do so may result in consequences like wrong diagnosis, unnecessary change of parts and waste of time. CFC-401 is of great help in providing information of imminent faults not yet affecting vehicle performance.

With the CFC-401 fuel system on-vehicle cleaner, it has two main functions: on-vehicle cleaning and test.

On-vehicle cleaning: together with special detergent, and without dismantling the engine, only connect the engine fuel supply hose and fuel return hose with proper connector. When the engine is running normally, CFC-401 may let the detergent flow into the fuel supply system and dissolve from the injector needle valve and other components of the combustion chamber, the deposit of oil sludge, gum, shellac, and varnish, etc., within 30 minutes, which will be drained from the emission system, and help restore the engine performance, smooth starting, stable idle, quick fuel charging, and horse power increasing, etc., and the highest target to save fuel and reduce air pollution.

Test function: During the using process, CFC-401 provides effective information such as false fuel pressure, low fuel flow, fuel with air bubbler, cannot keep the lasting pressure, low pressure caused by poor performance of the fuel pump. For example, high fuel pressure in engines equipped with conversion catalyst will ultimately lead to excessive consumption in conversion catalyst. Low fuel pressure in engines not equipped with oxygen sensors will lead to performance deterioration in the engine and to mechanical damages associated with lean mixtures such as detonation and bust, burnt valves and so on.

1.Usage

CFC-401 is mainly used for cleaning the fuel supply system for gasoline engine and test the engine fuel system.

2.Functions

- On-vehicle cleaning for engine fuel system.
- Testing the working pressure of engine fuel system.
- Work flow test for engine fuel system
- Maximum pressure test for fuel pump.
- Hold pressure test for adjusting valve.
- Hold pressure test for fuel pump.
- Internal leaks for fuel system.

3.Features

- Fully new "two in one" design, cleaning meanwhile test for fuel system.
- Automatic control cleaning and test; intelligent switch the internal pipes.
- Built-in protection device for fuel pressure.
- LCD display making easy operation.
- Equipped with kinds of special adapters, which are applicable to European, Asian and American vehicles.
- Adopted the special electric fuel pump, with high output pressure, small fluctuation and long usage life.
- With the special detergent, CFC-401 is of powerful cleaning function and guarantees no damage to any of the components in the engine after usage.

4.Working principle

The unit provides the mixture of detergent and fuel for the fuel system with the electric pump controlled by electron to remove the deposits inside the fuel system, the solenoid valve group switches among pipes to achieve the purpose of the auto fuel system test.

5.Specifications

- Ambient temperature: -10~+40℃
- Relative humidity: ＜85%
- No fire within 2m around the service spot.
- Rated voltage: DC12V
- Maximum power: 80W
- Maximum output working pressure：0.5Mpa
- Fuel outlet hose: 3m
- Fuel return hose：3m
- Tank：7L
- Filter：To filter out 10μm corpuscles
- Net weight: 65 Kg
- Gross weight: 94 Kg

Structure

1. Outline

CFC-401 is designed in a cabinet. There is a handle on the upper side and four casters at the bottom of the cabinet, which is quite convenient for moving. Fuel hoses

are equipped with proper connectors for fast mounting. The simple control panel with operation diagram helps you operate the unit easily. Refer to Fig.1.

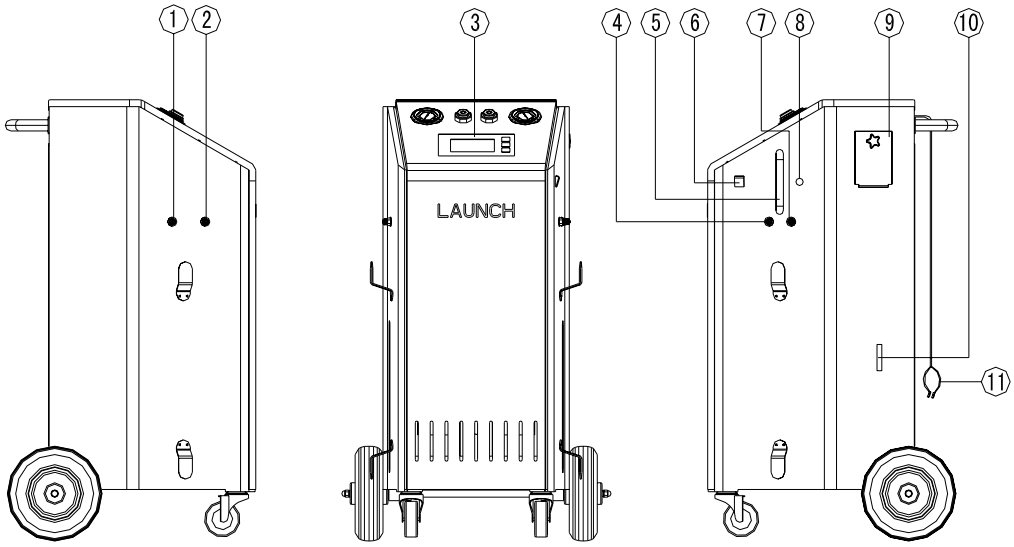


Fig.1
1,2,4,7-Fuel hose; 3- Control panel; 5- Flow meter; 6-Power switch;
8-Overflow valve; 9-Filling port; 10-Sight glass for fuel level; 11-Power cables.

2. Overall structure

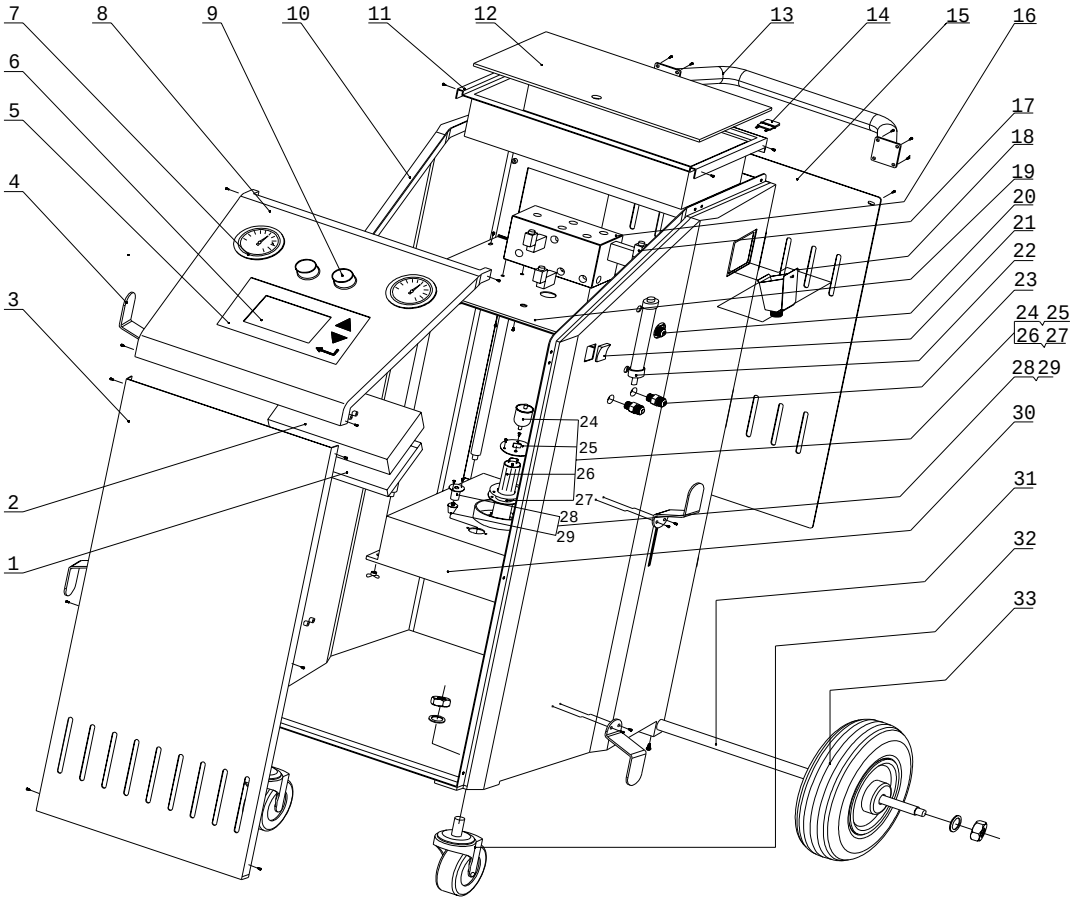


Fig.2

No.	Code	Name	No.	Code	Name
1	X103201688	Cover board for circuit box	18	X103201683	Filler
2	X103201687	Bottom box for circuit board	19	X103201689	Clapboard
3	X103201682	Cover board 03	20	103160021	Overflow valve
4	X103200670	Hook	21	102100023	Boat switch
5	107040084	Film	22	103260006	Flow meter
6	102190078	Blue LCD	23	103240245	Adapter
7	199010013	Fuel pressure	24	103260003	Iron gasoline filter
8	X103201681	Cover board 02	25	X103200691	Cover for fuel pump
9	103260167	Sight glass	26	102990030	Fuel pump
10	103240248	Cabinet	27	X103200690	Sleeve for fuel pump
11	X103201680	Cover board 01	28	X103201692	Protective sleeve for level switch
12	X104010465	Cover for connector box	29	102100063	Level switch
13	X103240250	Handle	30	X103201693	Fuel tank
14		Fuse	31	X103201684	Axle
15	X103201690	Back board	32		Front caster
16	103230150	T-type block	33		Back caster
17	102240004	Solenoid valve			

2.1 List for replaceable parts

No.	Name	Specifications	Specifications after Replacement
1	Durable rubble hose	ϕ8*15	Same as original
2	Clamp	6-12MM	Same as original
3	Filter	See sample	Same as original

3. Control panel

The control panel is as shown in Fig.3.



Fig.3.

Name or mark	Function description
OUT	Observe the new fuel flow
RETURN	Observe the fuel return
A	Pointing the fuel pressure
B	Pointing the fuel pressure
▲	Move cursor upwards or to increase the value
▼	Move cursor downwards or decrease the value
↵	Confirm the function to be operated.

4.Installation Environment

1) Keep the distance between the unit and any wall or other substance more than 200mm. The unit should be put in well-ventilated area. Make sure the temperature is within -10℃~ +40℃.
2) Check the supply circuit of the unit and select the DC12V power to supply for the unit.

5. On-vehicle cleaning adapters delivered with the unit(see Appendix 1)

Operation illustrations

1.Main menu

On-vehicle cleaning: To clean the fuel system without dismantling the engine.
Pressure test: To test pressure, flow, fuel pump and adjusting valve of auto fuel system.
Draining fuel: To drain fuel inside tank and pipes.
Database: To inquire the data for auto fuel system pressure.
System setting: To modify the unit system, eg: LCD contrast, display language, etc.

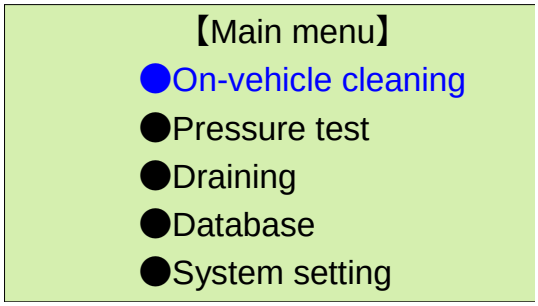


Fig.4

2. Pressure test menu

Pressure and flow: To test the pressure and flow of auto fuel system.
Max. pressure of fuel pump: To test the Max. pressure of fuel pump.

Hold pressure: To test the hold pressure of auto fuel system, fuel pump and adjusting valve.

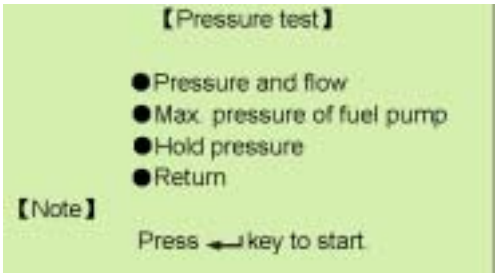


Fig.5

3.Pipeine connection

Engine with the fuel return hose, refer to Fig. 6.

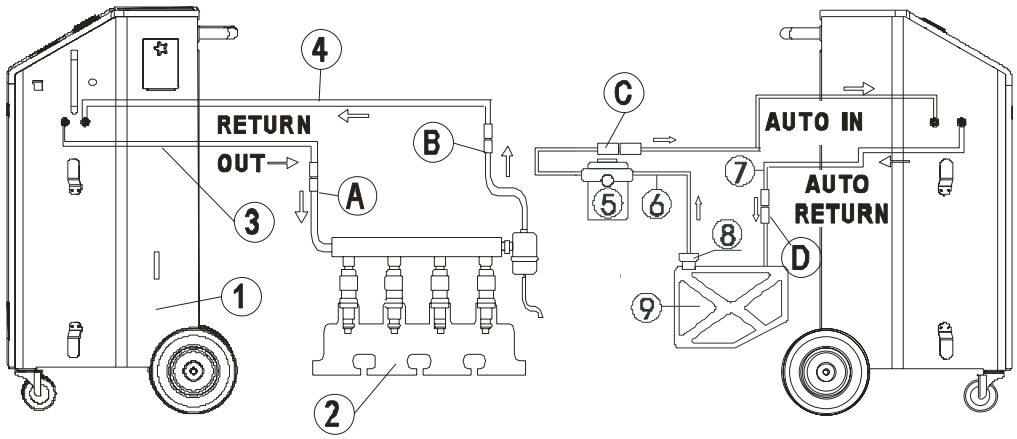


Fig.6

1. CFC-401; 2. Injector assembly; 3. Fuel outlet hose on the CFC-401; 4. Fuel return hose on the CFC-401; 5. Filter; 6. Fuel supply hose on the engine; 7-Fuel return hose on the engine; 8-Fuel pump; 9-Fuel tank.

Connection way:

Disconnect the connections of fuel supply hoses (A,C) and fuel return hoses(B,D) of the engine fuel system(wrap the connector with towel when disconnecting the connector). Choose proper connectors and connect:

1) The hose marked "OUT" to fuel inlet hose of the auto distributor;

2) The hose marked "RETURN " to fuel return hose for the distributor;

3) The hose marked "AUTO IN" to the fuel outlet hose of the fuel pump;

4) The hose marked "AUTO RETURN" to fuel return hose of the auto fuel tank.

When the test is not performed, skip the step 3) and 4), but must connect the disconnected pressure hose and return hose with proper hose, or remove the fuel pump fuse, or disconnect the power cable of engine fuel pump.

Engine without the fuel return hose, refer to Fig. 7.

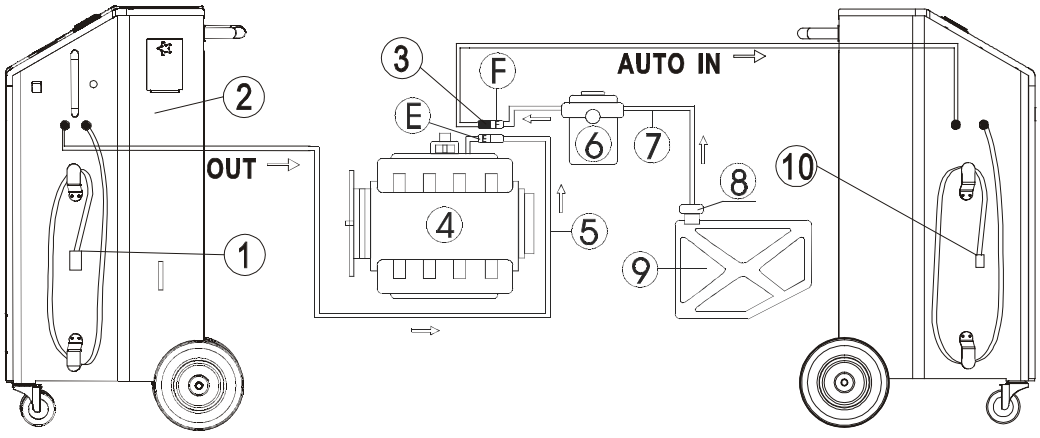


Fig.7

1-Fuel return hose on the CFC-401; 2-CFC-401; 3-Connector; 4-Engine; 5-Fuel outlet hose on the CFC-401; 6-Filter; 7-Fuel supply hose on the engine; 8-Fuel pump; 9-Fuel tank; 10-Fuel return hose on the engine.

Connection way:

Disconnect the fuel supply hoses (E, F) of engine fuel system (wrap the connector when disconnecting the connector), and then choose a proper connector and connect:

1) The hose marked "OUT" hose to fuel inlet hose on the engine.

2) The hose marked "AUTO IN" hose to outlet hose on the fuel pump.

When the test is not performed, skip the step 2), but must remove the fuse of fuel pump or disconnect the power cable of fuel pump.

Pipeline disconnection way:

1) Turn off the ignition switch of the auto.
2) Pressure release: Press ▼ key first and then press ↵ key to release pressure.
3) Disconnect the pipes and resume the auto original pipes.

4.Cleaning engine fuel system

4.1 Cleaning procedures

1) Be sure the pipes are well connected.
2) Turn on the power of the unit and enter to the interface of main menu, refer to Fig.8.

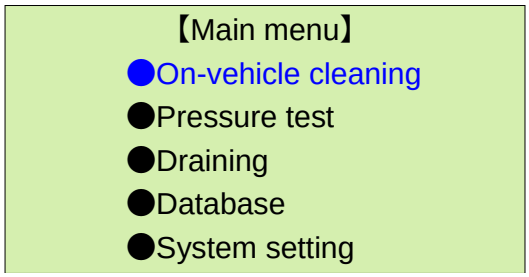


Fig.8

3) When the cursor is on on-vehicle cleaning, press ↵ key to enter the time setting menu. To set the cleaning time well, refer to Fig.9.

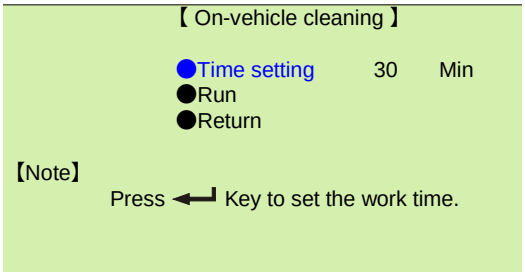


Fig.9

4) After the time is well set, move the cursor to Run, refer Fig.10. Press ↵ key to run, the unit run and clean the engine fuel system. Press ▲ ▼ key to adjust the pressure. Start the engine after the pressure is stable and the unit will begin to clean the engine fuel system. During cleaning, keep the engine at idle speed for 10 minutes, soaking for 10 minutes, and at high speed (about 2000rpm) for 5 minutes, and then make continuous acceleration for more times, the running interface is shown in Fig.11.

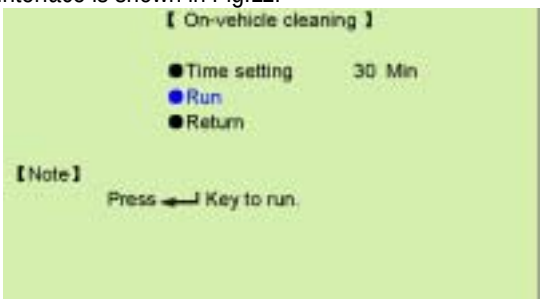


Fig.10

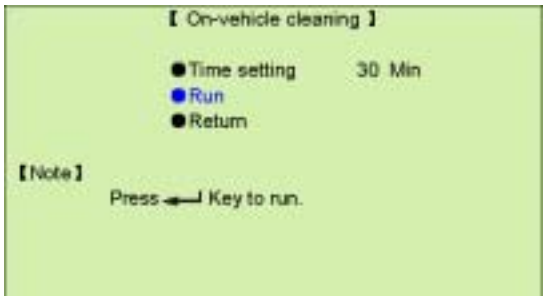


Fig.11

5) The unit counts down during running. When the set time is up, the unit will arise sound warning, and stop cleaning. Refer to Fig.12.



Fig.12

6) The operation of the engine with fuel return hose is same as that of the engine without the fuel return hose.

Note:
When the engine runs at high speed, the supply pressure of the unit will decrease, it is necessary to adjust the pressure again.

7) Key off the engine and resume the connection of auto pipelines.
8) Start the engine and make proper acceleration. Check if there is fuel leakage on the connection and pipelines.
9) Tidy up and clean up the machine.

5.Test

CFC-401 also provides the following test. (Only for EFI.), including:

- Working pressure
- Working flow
- Max. pressure of fuel pump
- Hold pressure of adjusting valve
- Hold pressure of fuel pump
- Internal leaks

The operating interface is shown as in Fig.13.

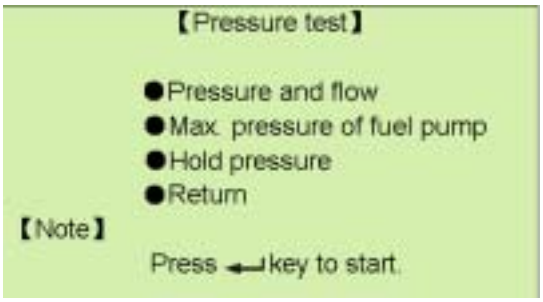


Fig.13

5.1 Pressure and flow test

1) Select the pressure and flow item, and press the ↵ key to enter the test function.
2) Under the situation that the engine is running, refer to Fig.14, read the system pressure from the A gauge, and read the system flow from the flow meter.

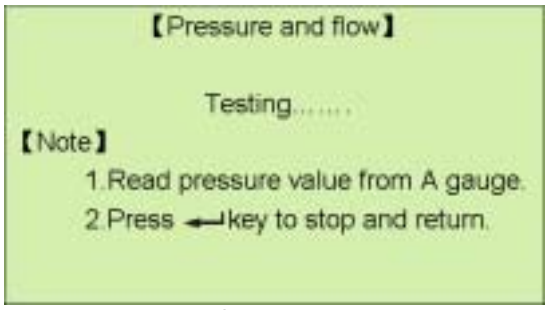


Fig.14

Note: The starting time should not be kept too long.

5.2 Max. pressure of fuel pump

1) Select the max. pressure in the menu and press ↵ key to enter the test function, refer to Fig.15.

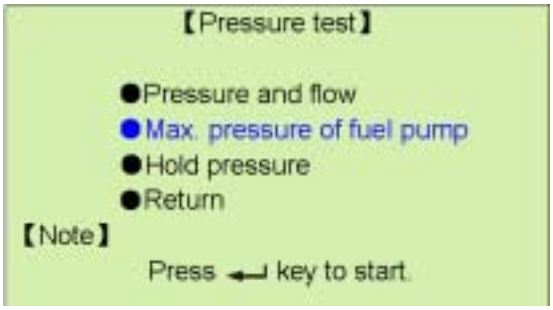


Fig.15

2) Under the situation that the engine is running, read the max. pressure of fuel pump from the B gauge in five seconds, refer to Fig.16.

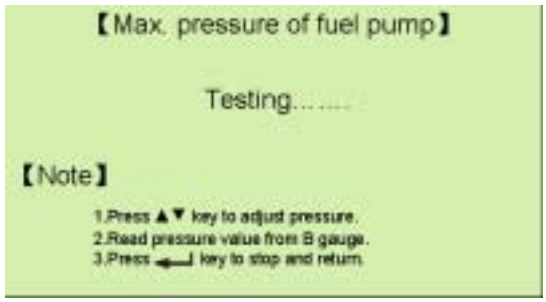


Fig.16

5.3 Hold pressure test

1) Select the hold pressure and press ↵ key to enter the test function, refer to Fig.17.

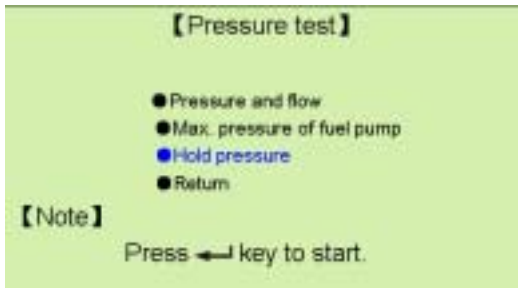


Fig.17

2) During testing, refer to Fig.18. If the engine is running, the unit will disconnect the engine fuel path automatically and turn off the engine, and then the unit will increase pressure on the fuel system automatically. After the ↵ key is pressed for 60 seconds, start to read and record the pressure value from A and B gauge, and observe the change of the reading on pressure gauge, which should not decrease below 20% of the original pressure within 5 minutes.

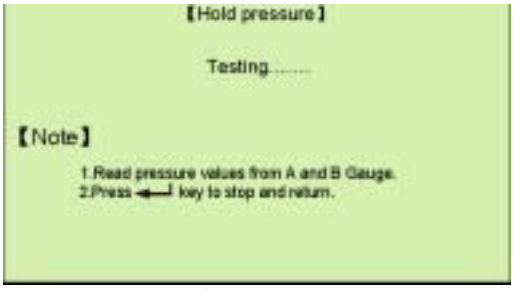


Fig.18.

3) Press ↵ key to end.

6. Draining fuel

Draining fuel inside tank:

When the unit needs storing for a period of time, the fuel inside tank should be drained. Select the straight male connector and insert it to the quick connector for "OUT" fuel hose, press ↵ key to start to drain until there is no fuel being draining out.

Hoses cleaning:

When changing different kinds of the fuel, not only empty the fuel tank inside the unit, but perform the hose cleaning. When the tank is fully emptied, fill the fuel matched the vehicle to be cleaned about 1L into the tank, and insert the straight male connector into four hoses in turn to drain fuel.

Procedure:

1) Select the draining item in main menu, refer Fig.19.

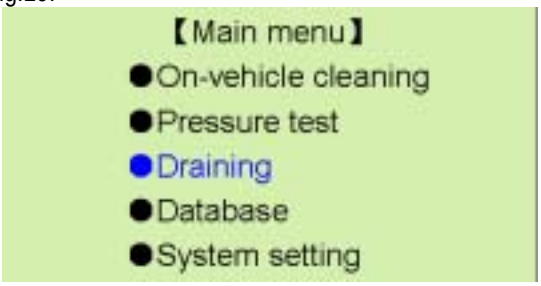


Fig.19

2) Press ↵ key and the unit starts to drain fuel, refer to Fig.20.



Fig.20

3) When there is no fuel being drained, press ↵ key to stop draining, refer to Fig.21.



Fig.21

7.Database inquiry

1) To inquire the auto fuel pressure and select database in main menu, refer to Fig.22, press ↵ key.

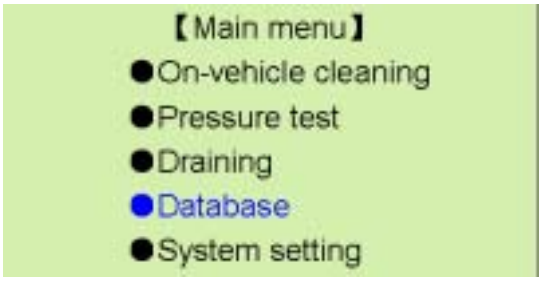


Fig.22

2) Select the desired vehicle type, refer to Fig.23, press ↵ key.

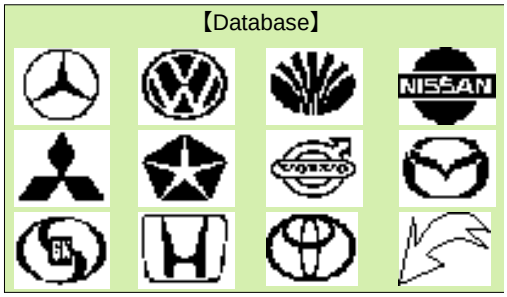


Fig.23

3) Read the parameter from menu, the vehicle type opposite to pressure parameter. Refer to Fig.24.

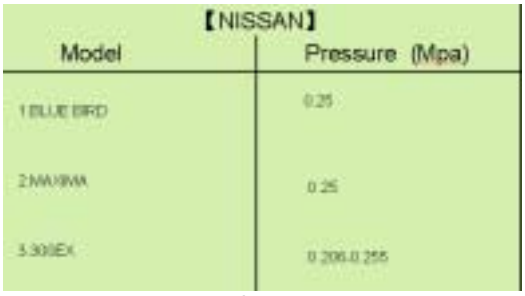


Fig.24

4) Press ↵ key to return to the main menu.

8.System setting

1) Select the system setting item and press ↵ key, refer to Fig.25.

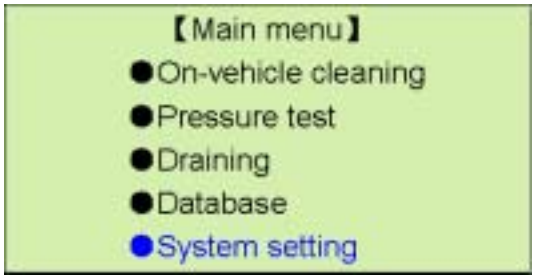


Fig.25

2) In the sub-item of setting parameter, select the item you desired to modify, refer to Fig.26.



Fig.26

8.1 Backlight setting

Select the backlight setting and press ↵ key to enter the setting interface, refer to Fig.27. Press ↵ key to select On or Off.

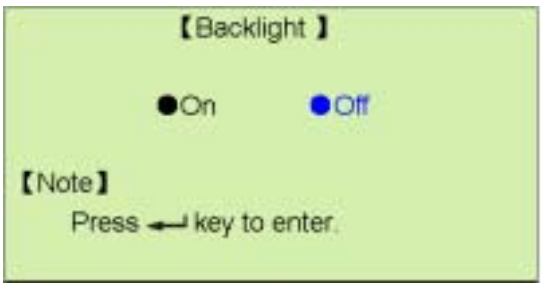


Fig.27

8.2 Contrast adjusting

Select the contrast setting and press ↵ key to enter the setting interface, refer to Fig.28. Press ↵ and ▲ ▼key to select the desired contrast.

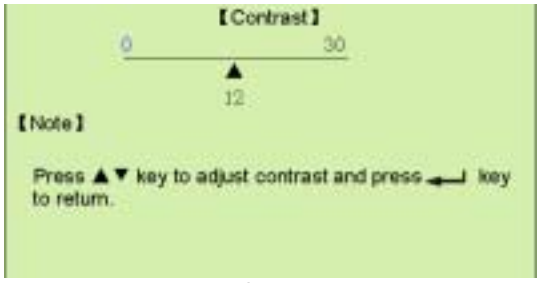


Fig.28

8.3 Language setting

Select the language setting and press ↵ key to enter the setting interface, refer to Fig.29. Press ↵ and ▲ ▼key to select the desired language.



Fig.29

8.4 Unit info

Select unit info item and press ↵ key to enter the interface for inquiring the manufacture date, version number, etc., refer to Fig.30.



Fig.30

Maintenance

1. Daily Maintenance

- Cover the lid of the fuel filling port to avoid the dust entering the fuel tank and blocking the pipeline after every usage.
- Keep the unit in the cool, dry, well ventilated and flat area.
- Tidy up the connectors and put them into the kit tool after every usage.
- Use the recommended the detergent to guarantee the long life span and cleaning effect.

2. Periodical maintenance

The filter will accumulate up much deposit after the unit is used for many times, please replace the filter periodically. To make sure that the unit could work normally, the replacement cycle depends on the use frequently, it is suggested to replace a filter every cleaning 20 vehicles.

Troubleshooting

1.Trouble 1：The unit does not work after it is turned on.
Cause: The inner circuit of the unit is loose or fallen.
Solution: Repair the inner circuit.

2.Trouble 2：There is pressure when the unit starts to work, but it could not increase but decrease after a period of time.
Cause 1: The filter is dirty.
Solution: Replace the filter.
Cause 2: The fuel pump is damaged.
Solution: Replace the fuel pump.

Appendix 1: On-vehicle adapters delivered with the unit

No.	Name	Code	Picture
1	CFC adapter A1	103250112	
2	CFC adapter A2	103250113	
3	CFC adapter A3	103250114	
4	CFC adapter A4	103250115	
5	CFC adapter A5	103250116	
6	CFC adapter A6	103250117	
7	CFC adapter B1	103250118	
8	CFC adapter C1	103250120	
9	CFC adapter C2	103250121	
10	CFC adapter C3	103250122	
11	CFC adapter D1	103240046	
12	CFC adapter D1	103240047	
13	CFC adapter D3	103240048	

No.	Name	Code	Picture
14	CFC adapter D4	103240052	
15	CFC adapter R1	103240053	
16	CFC adapter R2	103240054	
17	CFC adapter R3	103240055	
18	CFC adapter R4	103440056	
19	CFC adapter R5	103240057	
20	CFC adapter R6	103240058	
21	CFC adapter R7	103240059	
22	CFC adapter R8	103240060	
23	CFC adapter R9	103240061	
24	CFC adapter R10	103240062	
25	CFC adapter F1	103240064	
26	CFC adapter F2	103240065	
27	CFC adapter F3	103240066	
28	CFC adapter F4	103240067	
29	CFC adapter F5	103240068	
30	CFC adapter F6	10324069	

No.	Name	Code	Picture
31	CFC adapter F7	103240070	
32	CFC adapter F8	10320071	
33	CFC Ford adapter E1	103240179	
34	CFC Ford adapter E2	103240180	
35	CFC Ford adapter E1	103240181	
36	CFC on-vehicle quick fuel hose assembly 1	206010138	
37	CFC on-vehicle quick fuel hose assembly 2	206010139	
38	CFC on-vehicle quick fuel hose assembly 3	206010140	
39	CFC on-vehicle quick fuel hose assembly 4	206010141	
40	CFC on-vehicle quick fuel hose assembly 5	206010142	
41	CFC on-vehicle quick fuel hose assembly 6	206010143	

Appendix2: Table of Fuel Pressure

Make	Engine System	Cleaning Pressure PSI（KPa）
American Make		
Buick	EFI-TBI	20（138）
Cadillac		
Chevrolet		
Oldsmobile		
Pontiac		
Buick	MPDI-DFI	45（310）
Cadillac		
Chevrolet		
Oldsmobile		
Pontiac		
Buick 2.2	MPFI	35（241）
Cadillac 2.2		
Chevrolet 2.2		
Oldsmobile 2.2		
Pontiac 2.2		
Saturn		
Buick 4.0	MPFI	40（276）
Cadillac 4.0		
Chevrolet 4.0		
Oldsmobile 4.0		
Pontiac 4.0		
Storm	EFI-MPFI	40（276）
Prizm		

Make	Engine System	Cleaning Pressure PSI（KPa）
GEO1.0/1.6	EFI-MJPFI	30（207）
Ford1.9/2.3/2.5	CFI-TBI	20（138）
Ford3.8/5.0	CFI-TBI	40（276）
Ford1.6/1.9	EFI-MPFI	40（276）
Ford3.0/4.9	MPFI	40（276）
Ford Mercury	AFC/L-Jetronic	40（276）
European Make		
Benz	CIS/K-Jetronic	55（379）
Audi		
BMW		
Saab		
Peugeot		
Porsche	CIS/K-Jetronic	20（138）
Benz	CISE/KE-Jetronic	70（482）
Audi		
Volkswagen		
Volvo		
Benz	AFC/L-Jetronic	36（248）
BMW		
Fiat		
Porsche 3.0	AFC/LH-Jetronic	39（269）
Volvo		
Jaguar XJ6	AFC	36（248）
Volkswagen		
Jaguar XJS	AFC " P "	36（248）
BMW5.0	AFC/L-Jetronic	46（317）
Saab2.0/2.3	AFC/LH-Jetronic	30（207）
Renault 1.4/1.7/2.5	D-Jetronic	36（248）
BMW1.8/2.5	MPFI	46（317）
Audi2.2	MPFI	35（241）
Audi2.8	MPFI	43（296）
Volvo	EFI	39（269）
Asian Make		
Honda 2.0/2.2	PGM FI-SFI	40（276）
Hyundai 1.6/2.4/3.0	MPFI	35（241）
Mazda2.0/2.5/3.0		
Mitsubishi 2.0L	MPFI	50（345）
Suzuki1.3/1.6	MPFI	36（248）
MazdaRX7	RE-EGI	40（276）
Nissan 1.6/2.0/2.4	TBI	20（138）
Suzuki		
Isuzu 2.8L		
Suzuki1.3/1.6	TBI	26（179）
Daihatsu	TBI	36（248）
Mazda1.6/1.8/2.2	AFC/L-Jetronic	40（276）
Nissan 1.6/2.0/2.4		

Make	Engine System	Cleaning Pressure PSI（KPa）
Lexus 3.0LV-6		
Lexus 3.0LI-6		
Nissan 3.0（Non-turbo）	AFC/L-Jetronic	35（241）
Toyota 1.3/1.6/2.4		
Isuzu 3.1		
Mitsubishi 3.0L		
Infinite 3.0/4.5L	AFC/L-Jetronic	34（234）

Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE LAUNCH PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

LAUNCH electronic product is warranted against defects in materials and workmanship for one year (12 months) from date of delivery to the user. This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and LAUNCH shall not be liable for any consequential or incidental damages. Final determination of defects shall be made by LAUNCH in accordance with procedures established by LAUNCH. No agent, employee, or representative of LAUNCH has any authority to bind LAUNCH to any affirmation, representation, or warranty concerning LAUNCH automotive meters, except as stated herein.

Disclaimer

THE ABOVE WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Order Information

Replaceable and optional parts can be ordered directly from your LAUNCH authorized tool supplier. Your order should include the following information:
Quantity
Part number
Item description

Customer Service

If you have any questions on the operation of the unit, please contact us:

Tel: 86-755-82269474,
Fax:86-755-82264570,
E-mail: overseasales@cnlaunch.com.

If your unit requires repair service, return it to the manufacturer with a copy of the sales receipt and a note describing the problem. If the unit is proved to be in warranty, it will be repaired or replaced at no recharge. If the unit is proved be out of warranty, it will be repaired for a nominal service recharge. Send the unit pre-paid to:

Attn: Overseas Department

LAUNCH TECH. CO., LTD.
Xinyang Building,
Bagua 4th Road,
Shenzhen, Guangdong Province,
P.R.China