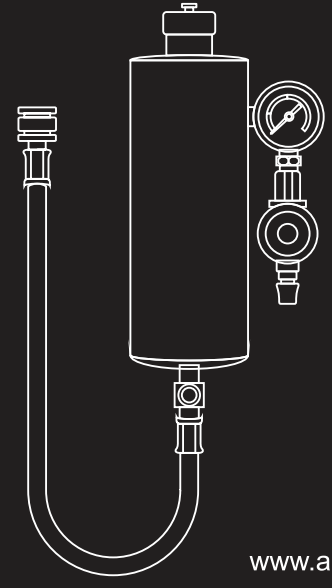
AUTOOL®

# AUTOOL C100

## Fuel System Cleaner

## User Manual



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深圳市偶然科技有限公司

深圳市光明新区长春南路中鹏程工业园

Shenhua Innovation Park, Baoan, Shenzhen, China

www.autooltech.com

aftersale@autooltech.com

+86-400 032 0988 / +86-755-27807580


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## Caution

- Wear protect gloves and cloth when operating.
- Must stop engine if there have any fuel leak!
- Bind up the pipe as disconnect the pipe to avoid splash and fire.
- Please prepare at least a fire extinguisher when doing on-vehicle cleaning.
- Please lead the exhaust to outdoor when doing on-vehicle cleaning, because it contains a variety of toxic and hazardous gases.
- Please put the transmission in N and pull the brake when doing on-vehicle cleaning.





## Connecting

The hose line connection of the engine with return hose is shown as in Fig.01.

- Disconnect the connections of fuel supply hoses (C、 D) and fuel return hoses (A、 B) of the engine fuel system (wrap the connector with towel when disconnecting the connector). Choose proper connectors and connect them to the B end and C end separately, and then connect the other ends to corresponding return hose and outlet hose of the unit. See Fig.01.
- Connect the disconnected other ends (A、 D) with proper hose, or remove the fuel pump fuse, or disconnect the power cable of engine fuel pump.

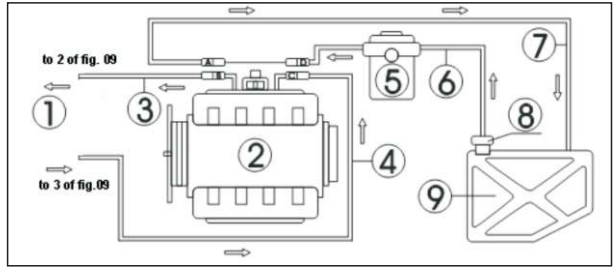



Fig.01

1-C100 Injector Cleaner & Tester; 2-Engine; 3- Fuel-return hose from engine; 4- Fuel-inlet hose to engine; 5-Auto filter; 6-Engine fuel supply hose; 7-Engine fuel return hose; 8- Auto fuel pump; 9-Auto tank

Without return hose connecting:

The hose line connection of theengine without returnhose is shown as in Fig.02.

- 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 it to the E end. Reconnect the fuel outlet hose of the unit well and make the fuel return hose hanging. See Fig.02.
- Stop the other end of the disconnected end (F) with a proper stopper, (use when the fuel pump has the fuel return function only) or remove the fuse of fuel pump or disconnect the power cable of fuel pump.

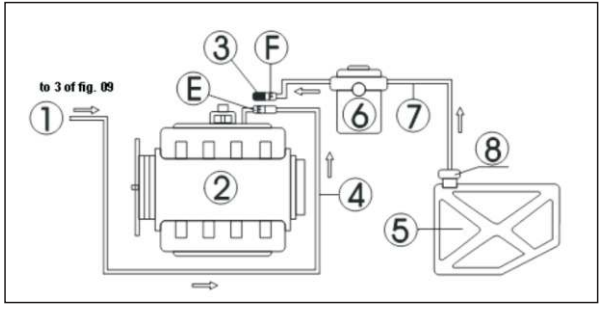



Fig.02

1-C100 Cleaner & Tester; 2-Engine; 3-stopper; 4- Fuel-inlet hose to engine; 5-Auto tank; 6-Auto filter; 7- Engine fuel supply hose; 8-Auto fuel pump;





## The pictures



- Pour the mixture of gasoline and detergent into steel bottle of the C100.
- Close the valve of C100's fuel-outlet pipe and open the valve of C100's air-inlet port and then connect to the compress air. Adjust the pressure of air within 0.3 to 0.4MPa（3 to 4kgf/cm2） by air control valve.
- Connect the fuel supply adaptor of C100 to fuel supply pipe of the car fuel system, and open the ball valve. Check if it has some leaking between all the connections. There must have no any leaking when doing the cleaning work.
- Start engine to start flushing the fuel system.
- Drain out the pressure in the C100's bottle after flushing, and then disconnect the C100.
- Restore all of the pipes of the fuel system and check there have no leaking.

**Note: The connection ways for carburetor fuel system is same to electronic fuel injection system. The pressure in carburetor fuel system must be 0.07~0.35 kgf/cm2.**

The operating procedure of TWC and intake manifold flushing:

- Pour the TWC detergent into the bottle. Open the Ball Valve and Air Pressure Regulating Valve to keep the air pressure as zero.
- Connect the TWC Flushing Kit to the output pipe of the C100.
- Disconnect the Intake Vacuum Pipe which near the throttle and insert the TWC Flushing Nozzle into Intake Vacuum Pipe as shown.



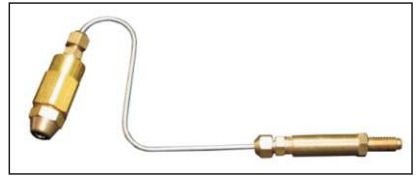

- Start the engine, and open the Ball Valve slowly which be sure to make the detergent into engine vacuum pipe very slowly. The flushing process needs about 30 or 40 minutes.
- Keep the engine speed up to 1000 rpm and press the accelerator every 3~5 minutes to make the engine speed up to 2000 ~ 3000 rpm and keep this state for 30 seconds. Then keep idle speed.
- Do the flushing procedures as above until to exhaust the detergent. Then stop engine and reconnect the vacuum pipe.
- Start engine as idle speed for about 5 to 10 minutes to exhaust the detergent in the pipe.





The operating procedure of Throttle body and exhaust pipe flushing:

- Pour the Throttle Body detergent into the bottle, and close the Ball Valve of the fuel outlet pipe. Open the ball valve of the air inlet port and connect to the compressed air. Adjust the air pressure to about 0.5MPa（5kgf/cm2） and then close the Ball Valve of air inlet port.
- Connect the spray nozzle kit to the fuel outlet port of the C100.



- Remove the pipe ahead of throttle before flushing as shown.



- Put the spray nozzle kit in the throttle body as shown and start the engine. And then open the Ball Valve of fuel outlet port .




- Keep the engine speed up to 1000 rpm and press the accelerator every 3~5 minutes to make the engine speed up to 2000 ~ 3000 rpm and keep this state for 30 seconds. Then keep idle speed.
- Do the flushing procedures as above until exhaust the detergent.
- Reconnect the pipes and initialize the throttle.

## Caution

**It must initialize the Throttle Position Sensor by automotive scan tool after cleaning. Otherwise the fault indicating lamp will lighten on, and PCM will record a DTC.**

## Warranty Service

There are 3 years' warranty for AUTOOL product main unit and 1 year warranty for the accessories since the day the customers have received the product parcel.





## Warranty Access

- Repair or replace the equipment will be done according to the specific fault conditions;
- We guarantee that all replacement parts, accessories or equipment are brand new;
- When there is a product breakdown that can not be solved within 90 days, customer should provide video and pictures as proof, we will bear the freight cost and provide customer the accessories in need to replace. After receiving the product for more than 90 days, the customer shall bear the freight cost, we will provide the accessory for free to replace.

## Warranty Access

- Product is bought through non-official AUTOOL purchase channel.
- Product failure is caused by incorrect use of the product, use for other wrong purpose or human factors.

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