

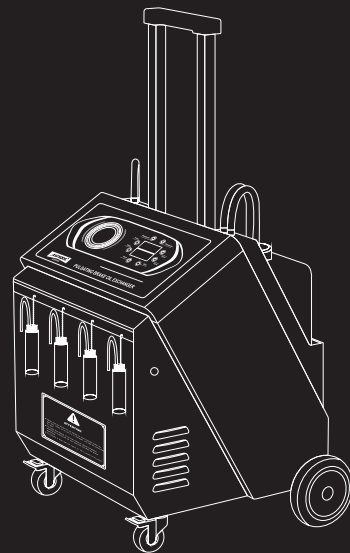
# AUTOOL®

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## AUTOOL AST618

Pulsating Brake Oil Exchanger

User Manual



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## Precautions

- Check the device by visual inspection before use. If it is damaged, please do not use it and contact the specialist for maintenance.
- The brake fluid dripping on the shell should be cleaned immediately; otherwise there can be chemical reaction on the surface which affects the appearance of product.
- Please do not put cloth contaminated by organic oil, fuel or solvent on this product.

## Trademark

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## Product Introduction

AUTOOL AST618 is controlled by microcontroller unit, which can control the oil pressure, oil flow and working time accurately. The high level of automation allows a single person to operate. It is convenient, time-saving and labor-saving. AUTOOL AST618 represents the highest technology in the automobile maintenance field. This product is widely used and suitable for the replacement of various kinds of oil and fluid.

## Product Features

- Can change oil for the four clutch slave cylinders at the same time, which is fast and labor-saving.
- Adjustable pulse unit oil change, which enables the product to clean the pipeline effectively and change the

oil or fluid completely.

- Outstanding fluid recovery function, which can reclaim the used brake fluid quickly and concurrently.
- Independent pipelines designed for new and used oil to prevent cross-contamination.
- In case moisture mixes with the oil, the air inlet is equipped with a device that can filter and separate the water from the air and ensure the quality of the oil.
- Equipped with corrosion-resistant oil hose, gorgeous, durable and easy to move.
- Applicable to European, American and Asian cars.
- Make brake fluid change more time-saving and labor-saving.
- Improve the performance of the braking system and extend its service life.

## Product Introduction

- Input voltage: DC12V;
- Power: 100W;
- Oil change speed: 0.5~1/min;
- Pressure range: 0.6~3.5bar;
- Maximum volume: 5L;
- Power cord length: 4M;
- Oil hose length: 4M;
- Main unit dimensions: 515x438x550mm; 203x172x216 inch;

## Structure

- 1-Handle;
- 2-Pressure tube;
- 3-Control panel;
- 4-Used oil recycling bottle;
- 5-Oil adding hose;
- 6-Oil container;
- 7-Power interface

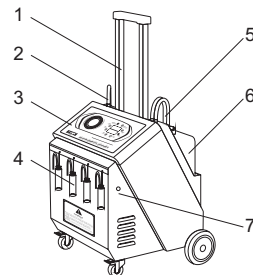


Fig.01

## Control Panel

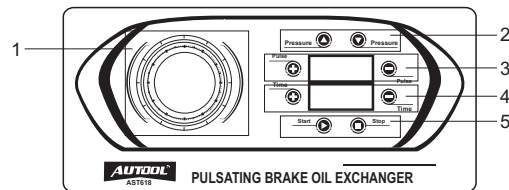


Fig.02

- 1-Pressure gauge; 2-Pressure adjustment;
- 3-Pulse adjustment 4-Time adjustment;
- 5-Start/Stop

## How to Adjust the Working Pressure Correctly

The working pressure of the pressure regulator has been set as 1~1.5 bar before delivery, to ensure that the car reservoir tank will not deform while changing the fluid, thereby guaranteeing the sealing performance of the secondary sealing ring. In addition, it allows you to exhaust the air or change the liquid at a relatively low working pressure by adjusting the pressure and the switch. Under the special circumstances, while operating at a relatively high working pressure, the pressure is not supposed to be too high, which may damage the clutch master cylinder of the braking system.

## Low-pressure Sealing Performance Test

By using this (smart)brake fluid replacement machine, you can exhaust the air and fill the fluid for your brake. You can also perform low pressure detection on the hydraulic brake. The device can be connected to the car reservoir tank through an adapter. Please close all the air valves before the connection. The air in the braking system is pressurized by the working pressure of the device (to the pressure required by the specific car model). Please check the master cylinder and the braking pipelines in case there is any leakage. If the brake fluid overflows, it means the braking system is not completely sealed.

## Operation Instructions

Note: It's not necessary to start the vehicle.

- Lift the car to a proper height to make the driving wheels off the ground.
- Connect the four oil tanks of the device to the car clutch slave cylinder, and loosen the exhaust screws to ensure there is oil flowing out.
- Pour 2 liters of new brake fluid into the fill port of the device, and connect the adapter that matches the car model with the port of the brake fluid reservoir of the car master cylinder.
- Connect the device to a 12V car battery and turn on the power switch.
- Press the "START" button to change the brake fluid.
- When changing the fluid, please pay attention to the port of brake fluid reservoir, if the process is too slow, press the "Accelerate" button and if it's too fast, press the "Decelerate" button to slow it down.
- After the oil change finishes, the used oil in the tank of the equipment must be completely drained. If it's not emptied, the vacuum pump will be damaged and the oil change process will fail.

## Reminder:

Please check each connection parts when changing the fluid to see if there is oil leakage and whether the connecting hose is damaged. Please keep the oil fill port clean.

## 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.

Disclaimer: The AUTOOL Technology Co, Ltd. reserves the right to change product designs and specifications without prior notice. The physical appearance and color may differ from those shown in the instruction manual. Please refer to the actual product. If you have any question, please contact the dealer or the Autool service center. The company have the final explanation right of product and shall not bear any consequences due to misunderstanding.



## 注意事项

- 每次使用前通过目测检查本产品是否有损坏，若有损坏请勿使用并通知专业人员进行维修。
- 滴在外壳上的刹车油应立即擦除，不然外表局部会起化学反应，进而影响产品外观。
- 严禁将沾有机油、燃料、溶剂的抹布放置于产品上。

## 注册商标

偶然公司已在中国及海外若干国家进行了商标注册，其标志为**AUTOOL®**。本手册所提及之偶然公司其它商标、服务标志、域名、图标、公司名称均属偶然及其下属公司之产权。在偶然公司之商标、服务标志、域名、图标、公司名称还未注册之国家，偶然公司声明其对未注册商标、服务标志、域名、图标、公司名称之所有权。本手册所提及之其它产品及公司名称的商标仍属于原注册公司所有。在未得到拥有人的书面同意之前，任何人不得使用偶然公司或所提及的其它公司之商标，服务标志，域名，图标，公司名称。

您如有任何疑问，可以访问偶然网址：[www.autooltech.com](http://www.autooltech.com)，或发送邮件至：[aftersale@autooltech.com](mailto:aftersale@autooltech.com)，与偶然公司联系。

## 产品介绍

AUTOOL AST618采用单片机控制，可以精确的控制油的压力、油的流量和工作时间，自动化程度高，单人操作即可，使用便捷、省时、省工，是汽车保养领域最高技术的结晶。本产品使用广泛，适用于各种油、液的更换。

## 产品功能

- 四个分泵同时换油，快捷省时；
- 可调节脉冲式换油，能够有效清洗管路、更换油液更彻底；
- 强劲的回收功能，能同时、快速地将旧的制动液回收；
- 新、旧油管路独立设计，防止新、旧油交叉污染；

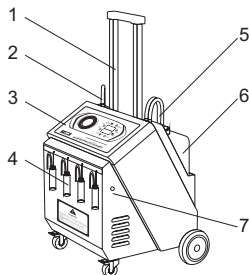
- 进气口带水分分离过滤装置，能分离出空气中的水分，避免与油液混合，保证油的质量；
- 耐腐蚀油管，美观、耐用且移动方便；
- 适用于欧洲、美洲、亚洲各国车型；
- 有效解决手工更换刹车油时费时费力的问题；
- 改善刹车系统的工作性能，延长刹车系统的使用寿命；

## 产品参数

- 输入电压：DC12V；
- 功率：100W；
- 换油速度：0.5-1L/min；
- 压力范围：0.6-3.5bar；
- 最大容积：5L；
- 电线长度：4M；
- 油管长度：4M；
- 主机体积：515\*438\*550mm；

## 产品参数

- 1-拉杆；
- 2-接气管；
- 3-控制面板；
- 4-旧油回收瓶；
- 5-抽新油管；
- 6-新油管；
- 7-电源接口。



## 控制面板

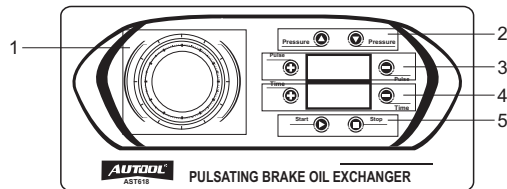


Fig.02

- 1-压力表；
- 2-压力调节；
- 3-脉冲调节；
- 4-时间调节；
- 5-开始/暂停。

## 正确调节工作压力

该装置出厂时，调压器的工作压力设置为1-1.5bar，这样可以保证在换油时储液室不变形，进而确保二级密封圈的密封性。另外，在较低的工作压力下进行排气或换油也是可行的，可以通过调节压力和大小开关来实现。在特殊情况下有较高的工作压力操作时要注意，调节压力过大，会把制动系统刹车总泵损坏。

## 低压密封性能测试

使用（智能型）刹车油更换机刹车排气充液装置，还可以对液力制动装置进行低压检测；装置通过一个转换器与储液室保持连接，注意此时关掉所有的排气阀，刹车系统通过装置的工作压力进行增压（至车型要求的压力）；观察整个总泵及刹车管路是否存在泄露，如有刹车液溢出，则说明刹车系统不密封。

## 操作步骤

注意:不需要启动车辆

- 将汽车举升至合适高度，使驱动轮离地悬空。
- 将设备4个接油壶分别接在汽车刹车分泵上，并松开刹车分泵排气螺丝，确保有油流出即可。
- 从设备“加油口”倒入2L新刹车油，找到匹配车型接头连接到刹车总泵油壶加油口上。
- 连接12V汽车电源，打开“电源开关”按键。
- 按“开始开关”按键进行刹车油更换。
- 换油过程中，看汽车刹车油油壶口，加油过慢按设备上的“加速开关”按键加速加油；加油过快按“减速开关”按键减速加油。
- 换油完成后，必须把设备旧油桶里的油排至干净，若不清空旧油桶会导致真空泵损坏，无法进行换油操作。

友情提示：换油时注意各连接处是否漏油，连接胶管是否破损，保持新油加油口的清洁。

## 售后服务

售后保修:

AUTOOL 整机自客户签收日起享有3年保修期，附件1年保修期。

- 根据具体的故障情况对设备进行修理或更换；
- 我方保证所有更换的部件、附件或设备都是全新；
- 在客户收到产品90天内出现故障同时提供视频和图片，我方承担运费并免费提供相应配件给客户更换。收到产品超过90天，客户承担相应的费用，我方免费提供配件给客户更换；

以下情况不再免费保修范围：

- 非正规渠道购买AUTOOL的产品；
- 未按产品说明书要求使用和维护造成的损坏；

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