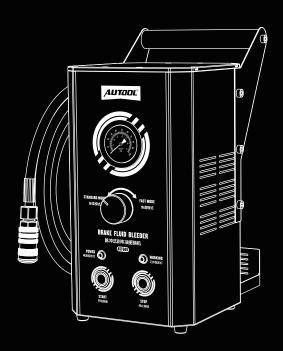


AUTOOL AST609

Brake Fluid Bleeder

User Manual 用户手册



www.autooltech.com



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CAUTIONS

Warning

Before using the instrument, please read this manual carefully for proper operation.

For your safety

- Work performed incorrectly can lead to injury or property damage!
- ▶ The brake maintenance device should only be operated by trained persons. Use by unauthorized persons is prohibited.
- ▶ Brake fluids are toxic and can lead to serious injury!
- Avoid all contact with brake fluid.
- Wear safety goggles to minimize the risk of injury from splashing.
- Wear suitable, protective gloves to minimize the risk of injury caused by skin contact.
- In case of skin contact with brake fluid, wash off immediately with water.
- Remove contaminated clothing.
- ▶ Do not carry any rags or anything else that has been in contact with brake fluid in your clothes.
- ▶ Before any work is performed on the brake maintenance device, disconnect the power cord and plug.
- Only plug the brake maintenance device in, when the device is turned off.
- ▶ Do not make design changes to the brake maintenance device.
- ▶ Before each use, make sure to check the brake maintenance device, its hoses, cables, and connectors. If there is any damage, do not use the brake maintenance device. Repairs are to be carried out by a specialist. Never open the brake maintenance device.
- ▶ The brake maintenance device must not be damp and should not be operated in a humid environment.



Proper usage

 The brake maintenance device is to be used exclusively for filling and draining of brake fluid for brakes and clutches on motor vehicles. Any other use is considered beyond the device's intended purpose is prohibited.

Foreseeable misuse

- Operation with other liquids other than brake fluid can damage the brake maintenance device and is therefore prohibited.
- For misuse, the manufacturer is not liable for any damage. Any risk is carried solely by the user or operator.

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PRODUCT INTRODUCTION

Operating principle

It works by using a pump to extract brake fluid from the new fluid bottle and continuously pumping it into the vehicle's brake fluid container at a specified pressure. Then, the old brake fluid is systematically discharged from each car brake cylinder, following the sequence specified by the vehicle's original manufacturer, until the new brake fluid begins to flow.

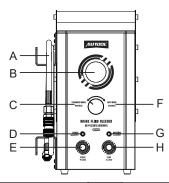
In comparison to traditional pressure-based brake fluid exchange machines, this innovative pulsating brake fluid bleeder machine efficiently prevents the formation of air bubbles during the filling process and streamlines or eliminates the necessity for manual bleeding procedures.

Technical data

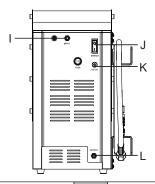
| Power Supply | DC12V or AC 110/220V ±10% |
|---------------------|------------------------------------------------------|
| Max. Power | 35W |
| Flow Rate | 2.6L/min |
| Working Pressure | 1.5-2.0bar (Standard Mode) 2.0-2.5bar (Fast Mode) |
| Filling Hose Length | 3.5m |
| Product Size | 220*255*360mm |
| Package Size | 300*400*252mm |

PRODUCT STRUCTURE

Structure diagram



| Α | Output pipe | В | Pressure gauge |
|---|-------------------|---|-----------------|
| С | Standard mode | D | Power indicator |
| Е | Switch-ON | F | Fast mode |
| G | Working indicator | Н | Switch-OFF |



| - 1 | Connector of input pipe | J | Power switch |
|-----|-------------------------|---|--------------------------|
| K | Power interface | ١ | Connector of output pipe |

• The adapter (Different versions are available), used to connect to the brake fluid reservoir, is not shown.

3

OPERATIONS INSTRUCTION

Workplace

- **Deployment /** The brake maintenance device should be installed on a flat surface. Make sure that the filling hose is not under any mechanical tension, for example when the vehicle is raised on a hydraulic lift.
 - With the startup procedure and operation, the area around the brake maintenance device becomes its workplace. Otherwise, there is no fixed workplace for the brake maintenance device.

Startup procedure

- The startup procedure describes the connection of the brake maintenance device to the containers with brake fluid, as well as the bleeding of the brake maintenance device. Bleeding of the device must be carried out with the initial startup procedure.
- The safety instructions in the section "For your safety" must be strictly observed.
- Before the initial startup procedure, make sure that the local voltage is the same as the information on the brake maintenance device's rating plate. The rating plate is located on the back of the brake maintenance device.

Only operate the brake maintenance device when the information matches

- Position the brake maintenance device on a stable, level surface
- Unscrew the lid from the container.
- If the brake maintenance device is not equipped with a container (e.g. Pro1 Mini), please place a container in the holder of the brake maintenance device, secure the container against falling out.
- Feed the suction hose and the pressure balance hose down to the base of the container. One line is used for suction. The other line allows for the excess pressure to flow back into the container.
- To bleed the brake maintenance device, do not connect the adapter to the vehicle, but only to the filling hose and position it over a collection container.

- Turn the "ON / OFF" switch on. Press the "Start" button and hold. The pump starts to deliver the brake fluid.
- Place the adapter over a collection container until the brake fluid flows without any air bubbles.
- Turn the "ON/OFF" switch off and wait for the pressure regulator drops to 0 bar. Remove the adapter.
- The brake maintenance device is now ready for use, even when the pressure gauge displays 0 bar. The pressurized side of the brake maintenance device should be free of bubbles.

Exchanging brake fluid

- The safety instructions in the section "For your safety" must be strictly observed.
- Before starting any work, please note the instructions for the vehicle manufacturer for the maximum filling pressure and any other specific instructions.
- In general, always follow the recommended instructions and guidelines for bleeding the brake system as mandated by the manufacturer for each type of vehicle.
 - Install the supplied adapter, or the appropriate adapter according to the instructions on the brake fluid reservoir.
 - 2 Connect the filling hose to the already installed adapter.
 - 3 Supply power to the brake maintenance device and turn the "ON / OFF" switch on.
 - **4 -** Press the "Start" button and hold until the pressure is at least 1.0 bar.
- With the pressure build-up successfully, release the "Start" button and the brake maintenance device will still work.
- With the pressure build-up unsuccessfully, release the "Start" button and the brake maintenance device will stop working immediately.

Possible cause

- New brake fluid in the container is not enough.
- The pressure is set too low by the pressure regulator.

Possible cause

- New brake fluid in the container is not enough.
- The pressure is set too low by the pressure regulator.
 - 5 Check that the adapter is correctly seated and tight where it connects to the brake fluid reservoir. If brake fluid leaks, immediately switch off the brake maintenance device and find the cause.
 - 6 Now bleed the brakes, one-by-one, beginning with the back right brake and finishing with the front left brake. To do this, open the valve on the wheel brake cylinder. Catch the old brake fluid with the collection bottle. As soon as the new, bubble-free brake fluid begins to flow out of the drain hole, the valve can be closed again.
 - 7 Then turn the "ON/OFF" switch off, to stop the brake maintenance device working.
 - 8 On the pressure gauge check that the pressure has gone down to 0 bar.
 - 9 Uncouple the depressurized filling hose from the adapter. Remove the adapter from the brake fluid reservoir.
 - 10- The brake fluid reservoir has now been filled. Use a suitable suction hose to extract a certain amount of brake fluid from it until the liquid level reaches the suitable range allowed in the brake fluid reservoir.
 - 11- Close the brake fluid reservoir.

⚠ IMPORTANT

▶ After completing the bleeding process or exchanging brake fluid, should the operation of the brake or clutch pedal be too long or the pressure behind the operation be to "soft", repeat depressing the pedal several times, each time applying stronger pressure to the pedal or clutch. If the situation remains unchanged, the bleeding procedure needs to be carried out again.

MAINTENANCE SERVICE

Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.

Maintenance

To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully:

- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
- Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
- Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable.
- Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time.
- Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
- When not in use, please store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places.

WARRANTY

From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

These conditions below shall not be in warranty range

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

Disclaimer

All information, illustrations, and specifications contained in this manual, AUTOOL resumes the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

RETURN & EXCHANGE SERVICE

Return & Exchange

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they
 are in good condition and eligible. Any item that does not pass
 inspection will be returned to you and you will not receive a
 refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

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注意事项

警告

↑ 在使用制动液更换机前,请注意以下操作:

- ▶ 违规工作可能导致健康伤害或财产损失!
- ▶ 只允许由接受过培训的人员操作制动液交换机。禁止未经准许的人员操作。
- ▶ 制动液是有毒的,可能导致健康严重受损!
- ▶ 务必避免与制动液接触。
- ▶ 配戴护目镜,使喷溅液体造成的损伤危险最小化。
- ▶ 配戴合适的保护手套,使皮肤接触造成的损伤危险最小化。
- ▶ 皮肤接触到制动液时,立即用水冲洗。
- ▶ 脱去被污染的衣物。
- ▶ 不要将抹布或其它被制动液浸湿的东西装入衣服随身携带。
- ▶ 在制动液交换机上进行所有工作前,拔下电源插头。
- ▶ 只有在制动液交换机已断路的情况下将插头插入插座。
- ▶ 不要在制动液交换机上进行任何受制于结构形式的变更。
- ▶ 每次使用前,请仔细检查制动液交换机。如若发现异常,不得继续使用制动液交换机。烦请专业人员进行维修,请勿擅自打开制动液交换机。
- ▶ 不允许打湿制动液交换机,也不允许在潮湿的环境下运行此设备。

按规定使用

制动液交换机仅规定用于填注和排出汽车制动设备和离合器设备中的制动液。任何其它使用或范围外的使用均视为未按规定使用,必须禁止。

可预见的 错误应用

- ▶ 用制动液以外的其它液体运行会损坏制动液交换机,必须禁止。
- ▶ 对于错误应用的情形,制造商不对产生的损坏承担任何责任。由 此产生的风险仅由操作者或承运方承担。

产品简介

功能原理

通过泵将制动液从新液储存罐中吸出,以指定的压力持续泵压到汽车制动液容器中。然后,在各个车轮制动分泵上,按照车辆原厂规定的次序依次将旧的制动液排出,直至新制动液流出。

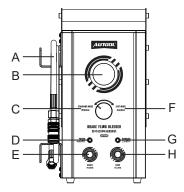
与传统的压迫式制动液交换机相比,此脉冲式制动液交换机可有效 地避免加注过程中产生气泡、优化或避免人工排气流程。

技术参数

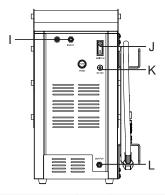
| 电源 | DC12V 或 AC 110/220V ±10% |
|--------|------------------------------------------|
| 最大功率 | 35W |
| 输出流量 | 2.6L/min |
| 工作压力 | 1.5-2.0 bar (标准模式) 2.0-2.5 bar (快速模式) |
| 填注软管长度 | 3.5m |
| 产品尺寸 | 220*255*360mm |
| 包装尺寸 | 300*400*252mm |

产品结构

结构图



| Α | 输出油管 | В | 压力表 |
|---|-------|---|-------|
| С | 标准模式 | D | 电源指示灯 |
| Е | 开始开关 | F | 快速模式 |
| G | 工作指示灯 | Н | 停止开关 |



| I | 输入油管接口 | J | 电源开关 |
|---|--------|---|--------|
| K | 电源接口 | L | 输出油管接口 |

操作说明

布置/工位

- 将制动液交换机放置在一个平整平面上。确保填注软管未处于机械应力下,比如将车辆提升到升降台上时。
- 启动和操作时,工位位于制动液交换机周围。其它情况下,未对制动液交换机的固定工位进行规定。

首次启动/ 设备自排空

启动描述了制动液交换机与装有制动液的新液储存罐的连接,以及制动液交换机的排空。任何情况下,必须在首次启动时进行排空。

- 首次启动前,将本地电源电压与制动液交换机铭牌上的电压说明进行比较。铭牌位于制动液交换机背面。电源电压与说明一致时方可启动制动液交换机。
- 将制动液交换机牢固地放置在平整平面上。
- 旋出新液储存罐顶盖的加注密封盖。
- 将新液储存罐放在制动液交换机的支架中。防止翻倒。
- 将抽吸软管和压力平衡软管插入新液储存罐直至底部。抽吸软 管用于吸取。剩余压力通过压力平衡软管回流到新液储存罐中。
- 为了排空制动液交换机,不要将适配器安装在车辆上,而是只连接在填注软管上,通过一个收集器固定。
- 接通制动液交换机的电源,打开电源开关。长按"开始"键,泵开始运行。
- 通过收集器固定适配器,直到制动液无泡溢出。
- 关闭电源开关, 待压力计缓慢下降至0bar后, 拆下适配器。
- 制动液交换机现在已准备就绪。

更换制动液

- 必须严格遵守安全指引中的规范。
- 开始工作前,注意汽车制造商有关最大填注压力的提示及特殊工作指南。
- 原则上,对于每一种型号的汽车,制造商提供的排空制动设备的

指南和准则始终是有效的。

- 1-将附加的适配器,或者按照说明书选择合适的适配器安装在车辆的制动液容器上。
- 2-将填注软管连接在已安装的适配器上。
- 3-接通PRO 1制动液交换机的电源, 打开电源开关。
- 4-按住"开始"键,直至压力至少达到1.0bar。
- 如果压力成功建立,松开"开始"键,制动液交换机应持续运行。
- 如果压力未能建立,松开"开始"键,制动液交换机将立即停止 运行。

可能原因:

- 新液储存罐中制动液储量不足。
- 调压器设定压力过低。
 - 5 检查制动液容器上的适配器是否处于正常位置,以及是否密封。如有制动液溢出,应立即切断制动液交换机,并查明原因。
 - 6-现在,请按照制造商提供的排空制动设备指南和准则,逐一排空制动分泵。如果制造商提供的排空制动设备指南和准则中无特殊说明更换次序,可从右后方开始,最终到左前方制动分泵结束。打开各车轮制动分泵上的排气螺栓,并用接油壶收集旧制动液。一旦新的无泡制动液从排出孔溢出,可将排气螺栓关闭。
 - 7-关闭电源开关,制动液交换机停止运行。
 - 8-用压力计检验工作压力是否缓慢下降至0bar。
 - 9-将无压的填注软管与适配器断开,从制动液容器上拆卸适配器。
 - **10** 现在制动液容器已被填充满。用一根合适的吸液管从中提取 一定量的制动液,直至达到制动液容器中允许的液位范围。
 - 11 关闭制动液容器。

企 注意

▶ 如果在排空过程或制动液更换后,证实操纵制动踏板或离合器 踏板的路径过长,或压力形成过"软",则必须在多次用力操纵 制动踏板或离合器踏板后重新进行一次排空过程。

维修保养服务

您所拥有的AUTOOL产品选用持久耐用的材料,AUTOOL坚持精益求精的生产工艺,每一件产品出厂都经过35道工序及12次质检工作,从而确保每一件产品都拥有卓越的品质及性能。所以您的AUTOOL产品值得您定期维护保养,使其产品将能够长期稳定地工作。

维修保养

维护保养是为了保持产品性能和外观,我们建议您仔细阅读以下产品保养指南:

- 注意不要将产品与粗糙表面摩擦或揉搓产品,特别是钣金外壳。
- 对产品中需要紧固和连接的部位经常进行检查,如发现松动应及时紧固,以保证产品的安全运行。对与各种化学介质接触的产品外部和内部零件要经常进行除锈、喷漆等防腐处理,以提高产品的抗腐蚀能力,延长产品的使用寿命。
- 遵守安全操作规程,不超负荷使用产品。产品的安全防护装置齐全可靠,及时消除不安全因素。电路部分彻底检查,老化电线要及时更换。
- 定期清洗和更换易耗部件;调整各部位配合间隙和更换磨损(已坏)部件清洁时,避免产品接触带腐蚀性的液态物品。
- 不使用时,请将产品存放于干燥的位置。不要将产品存放在高温、 潮湿或不通风的地方。

保修服务

AUTOOL主机自客户签收日起享有3年保修期。其所含附件自客户签收日起享有1年保修期。

保修方式

- 根据具体的故障情况对产品进行免费修理或更换;
- 我方保证所有更换的部件、附件或产品都是全新;
- 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;

以下情况不在免费保修范围:

- 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;

在AUTOOL,我们为精湛的设计和卓越的服务感到自豪。我们很乐意为您提供更多的支持或服务。

声明

偶然公司保留更改产品设计与规格的权利,届时恕不另行通知。实物外观与颜色可能与说明书中显示的有差别,请以实物为准。我们已尽最大努力力求使书中所有描述准确,但仍难免有不妥之处。如有疑问,请联系经销商或偶然售后服务中心。本公司对产品拥有最终解释权,不承担任何因误解而产生的后果。

退换货服务

退换货

- 如果您对从线上授权购物平台和线下授权经销商所购买的AUTOOL产品不满意,根据《AUTOOL全球销售条款》,您可以自收到产品之日起七日内退货;或者在产品交付之日起的30日内调换等值的其他产品。
- 退回及调换的产品必须处于完全可销售状态,并附上相关销售单单据,所有相关配件、纸质发票(如有)。
- AUTOOL将会对寄回退货的商品进行检查,以确保其处于完好无 损的状态并且符合条件,相关条件详情请参阅《AUTOOL全球销售条款》。任何未通过检查的商品将退还给您,您将不会获得商品退款。
- 您可以通过客户服务中心或AUTOOL授权经销商调换产品;退换 货原则为从哪里购买,就从哪里退换货。如果您退换货遇见困难 或者阻碍,请联系AUTOOL客户服务中心。通过客户服务中心退 换货时,我们建议您通过下面的方式进行;

| 中国区域致电 | 400-032-0988 / 18929303778 |
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| E-mail | aftersale@autooltech.com |
| Facebook | https://www.facebook.com/autool.vip |
| YouTube | https://www.youtube.com/c/autooltech |

• 如您的退换货得到确认,您将收到确认信息和邮件。