

AUTOOL AST 603

AUTOOL AST 603 Automatic Brake Bleeder Kit User Manual

Model: AST 603 | Brand: AUTOOL

INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of the AUTOOL AST 603 Automatic Brake Bleeder Kit. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury.

The AUTOOL AST 603 is an automatic brake fluid exchanger designed for one-person operation, featuring a built-in air pump and adjustable pressure for efficient and air-free brake fluid replacement in gasoline and diesel vehicles.



Figure 1: AUTOOL AST 603 Automatic Brake Bleeder Kit and included accessories.

SAFETY PRECAUTIONS

- Always wear safety goggles to minimize the risk of injury from splashing brake fluid.
- Wear suitable, protective gloves to minimize the risk of injury caused by skin contact with brake fluid.
- Ensure the work area is well-ventilated.
- Keep the device away from open flames or heat sources.
- Do not attempt to modify the device. Use only original accessories and parts.
- Ensure the power supply matches the device's requirements (AC 110V).
- Before starting, ensure all connections are secure to prevent leaks.

PRODUCT COMPONENTS AND FEATURES

The AUTOOL AST 603 is designed with user-friendly components for efficient brake fluid exchange.

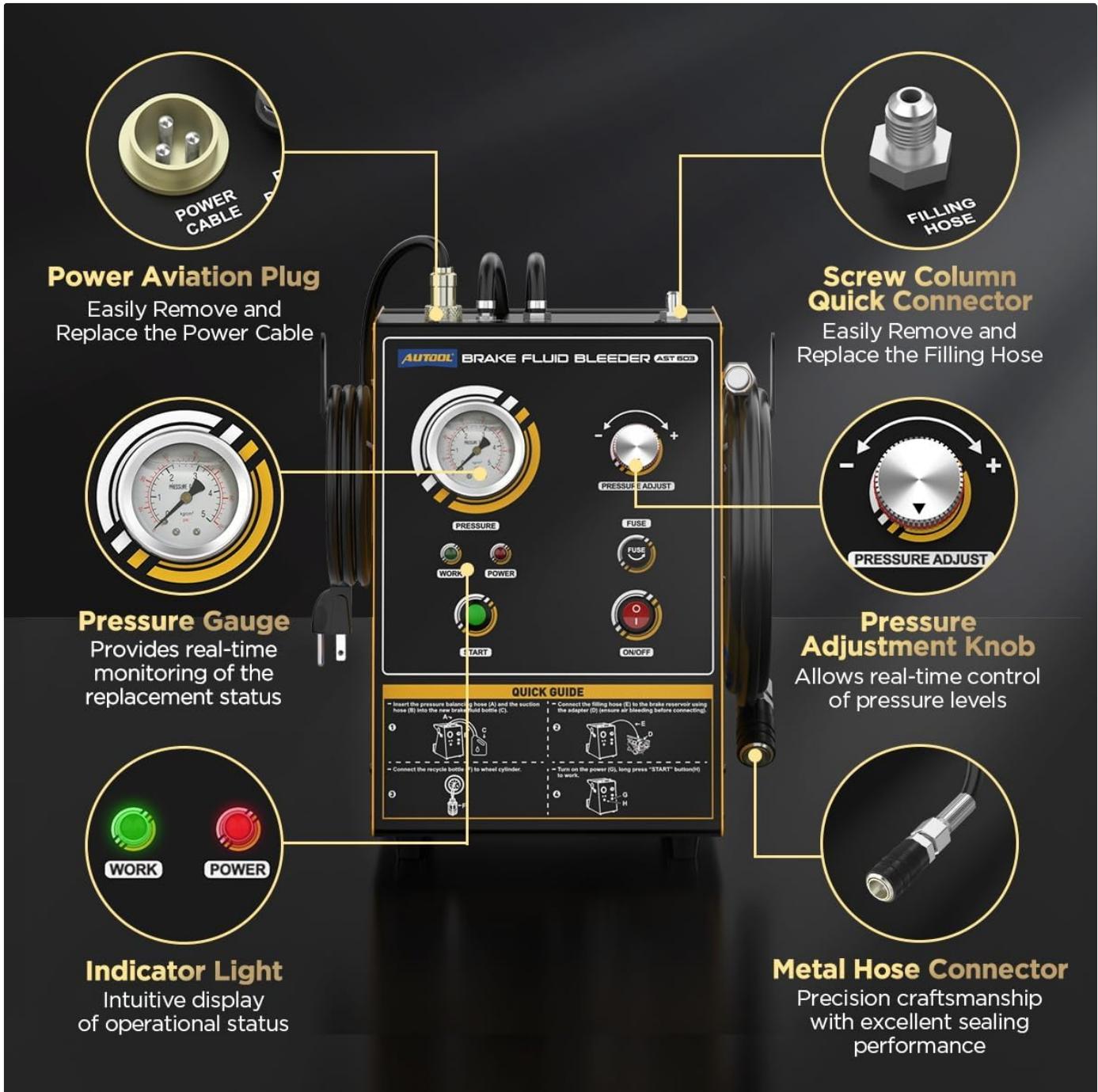


Figure 2: Key components of the AUTOOL AST 603.

- **Power Aviation Plug:** Easily remove and replace the power cable.
- **Screw Column Quick Connector:** For easy removal and replacement of the filling hose.
- **Pressure Gauge:** Provides real-time monitoring of the replacement status and pressure within the system.
- **Pressure Adjustment Knob:** Allows real-time control of pressure levels, adjustable from 0.7-2.5 bar.
- **Indicator Lights (WORK/POWER):** Intuitive display of operational status.
- **Metal Hose Connector:** Precision craftsmanship with excellent sealing performance.
- **Built-in Air Pump:** Eliminates the need for an external air compressor.
- **1.5L Waste Oil Bottle:** Included for collecting old brake fluid.

CORROSION-RESISTANT OIL HOSES

Made from special materials that offer excellent corrosion resistance, ensuring long-term use without being affected by chemical substances.



Corrosion-
Resistant



Excellent
Material



Long Service
Life



High
Flexibility

Figure 3: Corrosion-resistant oil hoses for durability and long service life.

SETUP

- Unpack the Device:** Carefully remove the AUTOOL AST 603 and all accessories from the packaging.
- Inspect for Damage:** Check the device and all components for any signs of shipping damage. Do not use if damaged.
- Prepare the Work Area:** Ensure a clean, well-lit, and well-ventilated area. Position the vehicle on a level surface and engage the parking brake.
- Connect Power:** Connect the power cable to the device and then to a standard AC 110V power outlet.
- Initial Purging (First Startup):** For the first use, it is essential to fill the equipment's tubing with new brake fluid to achieve an air-free bleeding process. This purges any air from the internal lines of the AST 603 itself.

AIR-FREE FILLING

The equipment pipeline is purged before filling, ensuring an air-free process during filling, and eliminating the need for purging after the oil change. No purging is needed after the oil change.



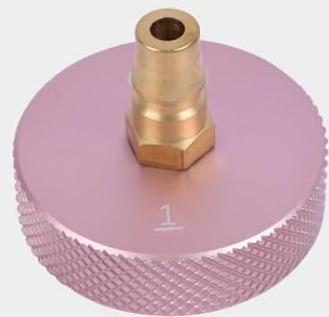
Figure 4:

Illustration of the air-free filling process for the equipment's tubing.

6. **Select Appropriate Adapter:** Choose the correct adapter for your vehicle's brake fluid reservoir. The kit includes adapters for various vehicle models, including Mercedes-Benz, BMW, Volkswagen, Skoda, Volvo, Land Rover, Jaguar, Ford, Audi, Tesla, and more.

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Mercedes-Benz, BMW, Volkswagen, Skoda, Volvo, Land Rover, Jaguar, Bentley, Porsche, Buick, Chevrolet, Ford, Citroen, PEUGEOT, Chery, Changan, Mazda, BYD, Roewe, Renault, Geely, ZHONGHUA, Great Wall Motor, MG, Lexus, Cadillac etc.



0#

Tesla



4#

Ford, Some of Audi models, PEUGEOT, TOYOTA



Figure 5: Examples of brake fluid reservoir adapters included with the kit.

FOR Benz
FOR BMW
For Audi
FOR Skoda
FOR FIAT
FOR Lexus
FOR Land Rover
FOR Jaguar
FOR Porsche
FOR Buick
FOR Ford
FOR Chevrolet
FOR Volvo
FOR Citroen
FOR Volkswagen
FOR PEUGEOT
FOR Renault



Figure 6: A list of compatible vehicle brands for the included adapters.

OPERATING INSTRUCTIONS

The AUTOOL AST 603 allows for efficient, one-person brake fluid exchange without the need to press the brake pedal.

INSTRUCTION OF THE BRAKE FLUID EXCHANGER

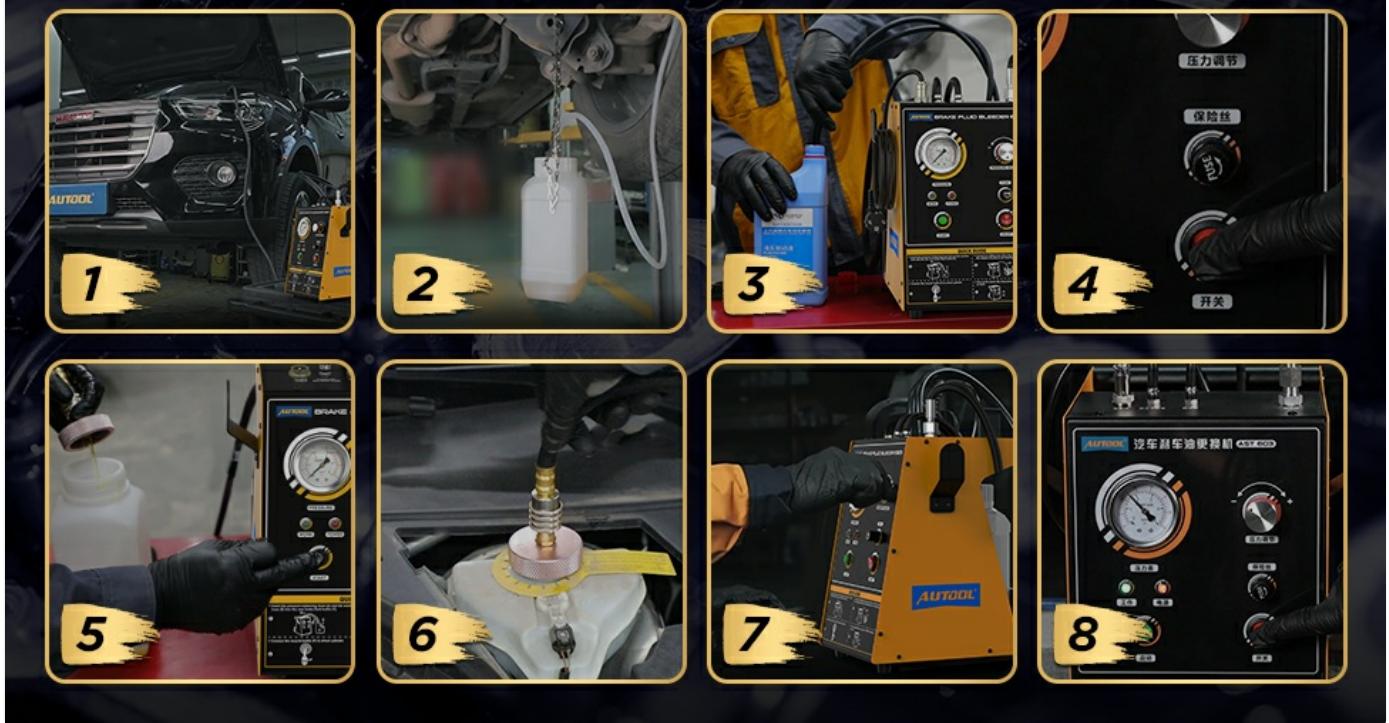


Figure 7: Visual guide for the brake fluid exchange process.

1. **Prepare New Brake Fluid:** Place the pressure balance hose and the oil suction hose into the new brake fluid bottle. Ensure the bottle is stable.
2. **Connect to Reservoir:** Connect the filling hose to the adapter fitting, then securely attach the adapter to the vehicle's brake fluid reservoir. Ensure the machine's internal lines are purged before connecting to the vehicle.
3. **Connect Recovery Bottle:** Connect the recovery fluid bottle (waste oil bottle) to the brake wheel cylinder bleed screw.
4. **Start Operation:** Turn on the power switch on the AST 603. Press and hold the "START" button to begin the brake fluid exchange operation.
5. **Monitor Pressure:** Adjust the pressure using the pressure adjustment knob as needed (0.7-2.5 bar). Monitor the pressure gauge to ensure stable operation.
6. **Monitor Fluid Level:** The device features smart liquid level monitoring. Filling automatically stops when the new fluid bottle is empty, preventing air from entering the brake system lines.

SMART LIQUID LEVEL MONITORING

The built-in pressure monitoring device ensures that filling automatically stops when the new fluid bottle is empty, preventing air from entering the brake system lines.



Figure 8: The smart liquid level monitoring system ensures automatic stop when fluid is low.

7. **Drain Old Fluid:** Open the bleed screw on the wheel cylinder to allow the old brake fluid to drain into the recovery bottle. Continue draining until new, clean brake fluid emerges.
8. **Repeat for All Wheels:** Repeat the process for each wheel, typically starting with the wheel furthest from the master cylinder (e.g., rear passenger, rear driver, front passenger, front driver).
9. **Finish Operation:** Once all wheels are bled, close the bleed screws, turn off the AST 603, and disconnect all hoses.
10. **Check Fluid Level:** Verify the brake fluid level in the vehicle's reservoir and top up if necessary.

The AST 603's pulsating brake fluid exchange technology effectively avoids the generation of air bubbles during the filling process, optimizing or eliminating the need for manual air bleeding.

SMART CONTROL TECHNOLOGY

No need to press the brake pedal; operations are completed automatically, with precise control of pressure and flow rate during the filling process.



Figure 9: Smart control technology allows for efficient, one-person operation without pressing the brake pedal.

MAINTENANCE

- **Clean After Use:** After each use, clean the exterior of the device and all hoses with a damp cloth. Ensure no brake fluid residue remains on the components.
- **Empty Waste Bottle:** Always empty the waste oil bottle after use and dispose of the old brake fluid responsibly according to local regulations.
- **Store Properly:** Store the AUTOOL AST 603 in a dry, clean environment, away from direct sunlight and extreme temperatures.
- **Check Hoses and Connectors:** Regularly inspect hoses and connectors for any signs of wear, cracks, or damage. Replace if necessary to ensure proper sealing and prevent leaks.
- **Filter Maintenance:** Refer to the specific product documentation for any internal filter cleaning or replacement schedules.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose power cable; blown fuse.	Check power outlet; ensure power cable is securely connected; check and replace fuse if necessary.
No fluid flow or low pressure.	Insufficient brake fluid in supply bottle; clogged hose/filter; loose connection; pressure adjustment too low.	Refill brake fluid; check hoses for kinks or blockages; tighten all connections; increase pressure using the adjustment knob.
Air bubbles in new fluid.	Initial purging not performed; loose connection at reservoir or bleed screw.	Ensure initial purging of the machine's lines was done; re-check all connections for tightness.
Fluid leaks from connections.	Loose connections; damaged O-rings or hoses; incorrect adapter.	Tighten all connections; inspect and replace damaged components; ensure correct adapter is used and properly seated.

If the problem persists after attempting these solutions, please contact AUTOOL customer support.

SPECIFICATIONS

Attribute	Value
Model	AST 603
Brand	AUTOOL
Manufacturer	AUTOOL
Item Weight	13.47 pounds
Package Dimensions	14.5 x 12 x 12 inches
Power Supply	AC 110V
Adjustable Pressure Range	0.7-2.5 bar
Waste Oil Bottle Capacity	1.5L
Output Flow	≤1.5L/min

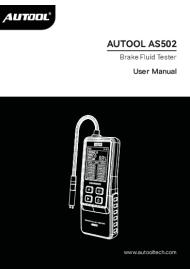
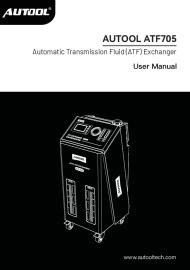
WARRANTY AND SUPPORT

Warranty: AUTOOL provides a three-year warranty for damages caused by non-human factors. During this period, AUTOOL promises to resend parts for free.

Customer Support: For any inquiries, technical assistance, or warranty claims, please contact AUTOOL customer support. We aim to reply as soon as possible within 24 hours.

You can find contact information on the official AUTOOL website or through your purchase platform.

Related Documents

 <p>AUTOOL AS506 Brake Fluid Boiling Point Tester User Manual www.autooltech.com</p>	<p>AUTOOL AS506 Brake Fluid Boiling Point Tester User Manual</p> <p>User manual for the AUTOOL AS506 Brake Fluid Boiling Point Tester, detailing its operation, safety precautions, product specifications, maintenance, and troubleshooting for accurate brake fluid analysis to ensure vehicle safety.</p>
 <p>AUTOOL AS502 Brake Fluid Tester User Manual www.autooltech.com</p>	<p>AUTOOL AS502 Brake Fluid Tester User Manual - Automotive Diagnostic Tool</p> <p>Comprehensive user manual for the AUTOOL AS502 Brake Fluid Tester. Learn about its features, operation, safety precautions, maintenance, warranty, and technical specifications for accurate brake fluid analysis.</p>
 <p>AUTOOL ATF705 Automatic Transmission Fluid(ATF)Exchanger User Manual www.autooltech.com</p>	<p>AUTOOL ATF705 Automatic Transmission Fluid Exchanger User Manual</p> <p>Comprehensive user manual for the AUTOOL ATF705 Automatic Transmission Fluid (ATF) Exchanger, detailing its features, operation, maintenance, and safety guidelines for professional automotive use.</p>
 <p>CATALOG 2024 ISSUE NO.3 Shenzhen AUTOOL Technology Co.,Ltd</p>	<p>AUTOOL 2024 Automotive Diagnostic and Maintenance Equipment Catalog</p> <p>Explore the AUTOOL 2024 Catalog, featuring a comprehensive range of automotive diagnostic and maintenance equipment. Discover advanced tools for engine pressure testing, oil analysis, battery testing, electrical circuit diagnostics, fuel injector cleaning, wheel alignment, and EV charging solutions from Shenzhen AUTOOL Technology Co.,Ltd.</p>