

FOXWELL RT1000

FOXWELL RT1000 Automatic Brake Bleeder Kit Instruction Manual

Model: RT1000 | Brand: FOXWELL

1. INTRODUCTION

The FOXWELL RT1000 Automatic Brake Bleeder Kit is designed for efficient and air-free brake fluid exchange and bleeding. This tool features dual vacuum pumps and constant-pressure dual-pulse technology, enabling a single user to perform brake system maintenance. It includes safety features such as adjustable pressure control, automatic shut-off, and dual-switch protection to ensure safe operation.

This manual provides detailed instructions for the proper setup, operation, and maintenance of your RT1000 unit.

2. SAFETY PRECAUTIONS

- Always wear appropriate personal protective equipment, including safety glasses and gloves, when handling brake fluid. Brake fluid is corrosive and can damage paint and skin.
- Ensure the vehicle is securely supported on a level surface using jack stands before beginning any work.
- Do not allow brake fluid to come into contact with painted surfaces. Clean any spills immediately.
- Use only new, clean brake fluid of the correct DOT specification for your vehicle.
- Never mix different types of brake fluid.
- Keep the work area well-ventilated.
- Ensure the power supply is 110V AC and the unit is properly grounded.
- Do not exceed the recommended pressure settings for your vehicle's brake system. The RT1000 automatically limits output to 0.3 MPa.
- Dispose of old brake fluid and contaminated materials according to local environmental regulations.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x RT1000 Automatic Brake Bleeder Unit
- 1 x Filling Line
- 1 x Suction Line
- 1 x Return Line
- 1 x 2.5L New Oil Tank
- 2 x 1L Waste Liquid Solution Boxes
- 1 x Withdrawal Device (Syringe)
- 1 x Standard Adapter (European vehicles)
- 1 x Power Line
- 1 x User Manual



Image: All components of the FOXWELL RT1000 kit, including the main unit, fluid tanks, hoses, and adapters.

4. PRODUCT OVERVIEW

The RT1000 unit features a control panel with a pressure gauge, start button, and on/off switch. Connections for the various fluid lines are located on the side of the unit.

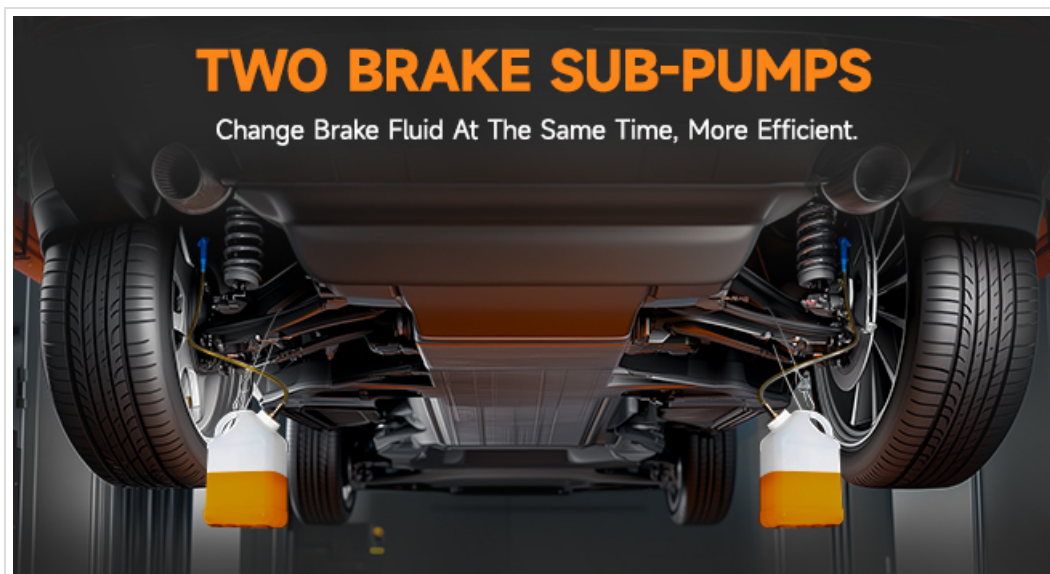


Image: Detailed diagram illustrating the various parts and connections of the RT1000 unit.

5. SETUP

5.1 Initial Preparation

1. Position the RT1000 unit on a stable, level surface near the vehicle.
2. Connect the power line to the unit and a 110V AC power outlet.
3. Connect the Filling Line, Suction Line, and Return Line to their respective ports on the unit. The ports are color-coded for easy identification.
4. Pour new brake fluid into the 2.5L New Oil Tank.
5. Connect the Suction Line and Return Line to the New Oil Tank.

5.2 Vehicle Preparation

1. Safely lift the vehicle using a hoist or jack stands to access the brake calipers and master cylinder.
2. Locate the vehicle's brake fluid reservoir.
3. Use the provided withdrawal device (syringe) to remove as much old brake fluid as possible from the master cylinder reservoir without allowing air to enter the system. This step helps to prevent contamination of the new fluid.



Image: Using the withdrawal device to remove excess brake fluid from the reservoir.

5.3 Connecting to Master Cylinder

1. Select the appropriate adapter for your vehicle's master cylinder reservoir. The kit includes a standard European adapter compatible with most BMW, Mercedes-Benz, Audi, VW, Porsche, Volvo, Jaguar, Citroën, Peugeot, and Fiat vehicles. Adapters for American and Asian vehicles are sold separately.
2. Securely attach the selected adapter to the vehicle's master cylinder reservoir.
3. Connect the Filling Line from the RT1000 unit to the adapter on the master cylinder reservoir. Ensure a tight, leak-free connection.

About Standard Adapter



Image: The standard European adapter for the master cylinder.

5.4 Priming the Unit

Before connecting to the vehicle, it is recommended to prime the unit to ensure fluid flow and remove any air from the internal lines. Follow the instructions in the user manual for the priming procedure.

6. OPERATING INSTRUCTIONS

6.1 General Operation Steps

1. Ensure all connections are secure and the New Oil Tank is filled with fresh brake fluid.
2. Press the **ON/OFF** button to power on the unit.
3. Turn the pressure adjustment knob to set the desired operating pressure. The recommended pressure is typically 0.2 MPa (approximately 29 PSI).
4. Press and hold the **START** button. Continue holding until the pressure gauge reaches 0.2 MPa, then release. The unit will maintain the set pressure.
5. Connect one of the 1L Waste Liquid Solution Boxes to the bleeder screw of the brake caliper farthest from the master cylinder (typically the rear passenger wheel for left-hand drive vehicles).
6. Open the bleeder screw. Observe the fluid flowing into the waste container. Initially, old, discolored fluid

and air bubbles will be expelled.

7. Once clean, bubble-free fluid is consistently flowing, close the bleeder screw.
8. Repeat steps 5-7 for the remaining brake calipers, moving progressively closer to the master cylinder (e.g., rear driver, front passenger, front driver).
9. After bleeding all calipers, press the **ON/OFF** button to turn off the unit.
10. Carefully disconnect all lines and adapters.



Image: Visual guide to the brake fluid change process.

6.2 Important Operating Notes

- The RT1000 features **Dual Vacuum Pumps** for strong, steady pressure, ensuring an air-free exchange.
- The unit has **Smart Auto Shut-Off**. It automatically stops when the new oil tank runs low to prevent air from entering the brake system.
- It also includes **Dual Switch Protection** to prevent accidental high-pressure starts.
- Always monitor the pressure gauge during operation to ensure it remains within the safe operating range (0.15-0.3 MPa).

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Video: Demonstration of the FOXWELL RT1000 Automatic Brake Bleeder Kit in operation, highlighting its one-person functionality and ease of use.

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Video: Overview of the FOXWELL RT1000, showcasing its features and how it functions as an automotive brake system bleeding tool.

7. MAINTENANCE

- After each use, drain any remaining brake fluid from the New Oil Tank and the internal lines of the RT1000 unit.
- Clean the exterior of the unit and all hoses with a damp cloth. Avoid using harsh chemicals that may damage the plastic components.
- Ensure all connections are free of debris and stored properly to prevent damage.
- Store the unit in a clean, dry place away from direct sunlight and extreme temperatures.
- The unit is constructed from corrosion-proof materials, but proper cleaning and storage will extend its lifespan.

8. TROUBLESHOOTING

- **No Pressure or Low Pressure:**

- Check all hose connections for leaks. Ensure they are securely fastened.
 - Verify the New Oil Tank has sufficient fluid. The unit has low-pressure protection and will stop working if pressure is too low.
 - Ensure the master cylinder adapter is correctly sealed to the reservoir. An improper seal can lead to pressure loss.
 - Confirm the pressure adjustment knob is set correctly.
- **Air in Brake Lines After Bleeding:**
 - Re-check all connections for leaks, especially at the master cylinder adapter and bleeder screws.
 - Ensure the New Oil Tank did not run empty during the process, which would introduce air. The auto shut-off feature should prevent this, but manual monitoring is advised.
 - Repeat the bleeding procedure, paying close attention to the order of bleeding calipers (farthest to closest).
- **Adapter Does Not Fit Vehicle:**
 - The included adapter is designed for specific European vehicles. Adapters for American and Asian vehicles are sold separately. Verify compatibility before use.
 - Contact FOXWELL support for information on purchasing additional adapters.
- **Unit Does Not Start:**
 - Ensure the power cord is securely connected and the power outlet is functional.
 - Confirm the **ON/OFF** switch is in the 'ON' position.
 - The **START** button requires a brief hold until pressure builds to 0.2 MPa. If the pressure knob is set too low or too high initially, the unit may not engage.

9. SPECIFICATIONS

Feature	Specification
Model	RT1000
Working Voltage	110V AC
Working Pressure	0.15-0.3 MPa
Pressure Limit of Protection	0.3 MPa (Automatic)
New Oil Tank Capacity	2.5 Liters
Waste Liquid Solution Box Capacity	1 Liter (x2)
Item Weight	12.12 pounds (5.5 KGS)
Product Dimensions (L x W x H)	7.17 x 5.98 x 13.31 inches (18.2 x 15.2 x 33.8 cm)

10. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase additional accessories and adapters, please contact FOXWELL customer service. Refer to the contact details provided in the separate warranty card or on the official FOXWELL website.

