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### OTC 8101

# OTC (8101) Fluid Evacuator and Brake Bleeding Tool User Manual

Model: 8101

## 1. INTRODUCTION

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The OTC 8101 Fluid Evacuator and Brake Bleeding Tool is designed for efficient removal of various automotive fluids and for bleeding brake systems. This versatile tool operates using standard shop air, providing a clean and effective method for fluid management and brake maintenance. It features a 6-liter capacity tank and includes specialized hoses for both fluid evacuation and brake bleeding tasks.



**Figure 1:** OTC 8101 Fluid Evacuator and Brake Bleeding Tool. This image displays the complete unit, including the main tank, hoses, and connectors, ready for use in automotive fluid management and brake bleeding applications.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions when operating the OTC 8101 tool:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the work area is well-ventilated, especially when handling automotive fluids.
- Do not exceed the recommended air pressure for operation. The tool is equipped with a relief valve to prevent over-pressurizing the tank.
- Keep the tool away from open flames, sparks, and heat sources.
- Dispose of evacuated fluids according to local environmental regulations.
- Do not modify the tool or its components. Use only genuine OTC replacement parts.
- Read and understand all instructions before operating the tool.

## 3. COMPONENTS

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The OTC 8101 Fluid Evacuator and Brake Bleeding Tool includes the following main components:

- **Main Tank:** 6-liter capacity tank for fluid collection.
- **Brake Bleeding Hose:** Specialized hose for connecting to brake calipers/wheel cylinders.
- **Fluid Evacuation Hose:** Hose designed for extracting various fluids from reservoirs.
- **Quick-Connect Locking Hose Adapters:** For secure attachment of hoses.
- **Ball-Style On/Off Valve:** Located on the hose to prevent fluid leakage.
- **Relief Valve:** Integrated safety feature to prevent over-pressurization.
- **Air Inlet Connection:** For connecting to a shop air supply.

## 4. SETUP

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Follow these steps for initial setup of the OTC 8101 tool:

1. **Unpack Components:** Carefully remove all components from the packaging and inspect for any damage.
2. **Connect Hoses:** Attach the desired hose (brake bleeding or fluid evacuation) to the main tank using the quick-connect locking hose adapters. Ensure a secure connection to prevent leaks.
3. **Connect to Shop Air:** Connect your shop air supply to the air inlet connection on the tool. Ensure the air pressure is within the recommended operating range (typically 40-120 PSI, refer to tool markings for exact range).
4. **Verify Connections:** Double-check all hose and air connections for tightness before proceeding with operation.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Fluid Evacuation

This procedure is suitable for removing fluids such as antifreeze, oil, transmission fluid, and gear lube.

1. **Prepare Vehicle:** Position the vehicle on a level surface and ensure it is stable. Access the fluid reservoir or dipstick tube from which fluid will be evacuated.
2. **Insert Evacuation Hose:** Insert the fluid evacuation hose into the fluid reservoir or dipstick tube. Ensure the hose reaches the lowest point of the fluid for maximum extraction.
3. **Connect Air Supply:** Connect the tool to your shop air supply.
4. **Open Valve:** Open the ball-style on/off valve on the hose to begin the evacuation process. The tool will create a vacuum to draw the fluid into the 6-liter tank.
5. **Monitor Fluid Level:** Observe the fluid level in the tank. Do not overfill the tank. The relief valve will activate if pressure becomes too high.
6. **Close Valve and Disconnect:** Once the desired amount of fluid is evacuated, close the ball-style on/off valve and disconnect the air supply. Carefully remove the evacuation hose from the vehicle.

### 5.2. Brake System Bleeding

This procedure is for bleeding air from hydraulic brake systems.

1. **Prepare Vehicle:** Ensure the vehicle is safely supported. Clean the area around the brake bleeder screws.
2. **Fill Master Cylinder:** Ensure the brake master cylinder reservoir is filled to the MAX line with the correct type of brake fluid. Monitor the level throughout the bleeding process and refill as necessary to prevent air from entering the system.
3. **Connect Brake Bleeding Hose:** Attach the brake bleeding hose to the bleeder screw of the wheel cylinder or caliper you intend to bleed. Ensure a snug fit.
4. **Connect Air Supply:** Connect the tool to your shop air supply.

5. **Open Bleeder Screw:** Loosen the bleeder screw approximately 1/4 to 1/2 turn.
6. **Open Valve:** Open the ball-style on/off valve on the hose. The tool will create a vacuum, drawing fluid and air from the brake system into the tank.
7. **Monitor Fluid:** Observe the fluid flowing through the hose. Continue bleeding until no air bubbles are visible in the fluid.
8. **Close Valve and Bleeder Screw:** Close the ball-style on/off valve, then tighten the bleeder screw.
9. **Repeat for Other Wheels:** Repeat the process for each wheel, typically starting with the wheel furthest from the master cylinder and working towards the closest.
10. **Check Brake Pedal:** After bleeding all wheels, check the brake pedal for firmness. If spongy, repeat the bleeding process.

## 6. MAINTENANCE

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Proper maintenance ensures the longevity and reliable operation of your OTC 8101 tool.

- **Empty Tank:** After each use, empty the collected fluid from the 6-liter tank.
- **Clean Hoses:** Flush hoses with an appropriate cleaning solution if necessary, especially after evacuating corrosive fluids.
- **Inspect Connections:** Regularly inspect all hose connections and the air inlet for wear or damage. Replace worn components as needed.
- **Storage:** Store the tool in a clean, dry place, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No vacuum or weak suction.	<ul style="list-style-type: none"> <li>Insufficient shop air pressure.</li> <li>Loose hose connections.</li> <li>Clogged hose or filter.</li> <li>Ball-style valve not fully open.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure shop air supply is connected and providing adequate pressure (40-120 PSI).</li> <li>Check and tighten all quick-connect hose adapters.</li> <li>Inspect hoses for blockages and clean if necessary.</li> <li>Ensure the ball-style on/off valve is fully open.</li> </ul>
Fluid leakage from connections.	<ul style="list-style-type: none"> <li>Loose hose connections.</li> <li>Damaged O-rings or seals.</li> </ul>	<ul style="list-style-type: none"> <li>Tighten all quick-connect hose adapters.</li> <li>Inspect O-rings and seals for wear or damage and replace if necessary.</li> </ul>
Tank over-pressurizes.	<ul style="list-style-type: none"> <li>Relief valve malfunction.</li> <li>Excessive air pressure input.</li> </ul>	<ul style="list-style-type: none"> <li>Contact OTC customer support for relief valve inspection/replacement.</li> <li>Ensure shop air pressure is within the specified operating range.</li> </ul>

## 8. SPECIFICATIONS

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- **Model:** OTC 8101

- **Capacity:** 6 Liters
- **Operation:** Shop Air (typically 40-120 PSI)
- **Item Weight:** 6.8 pounds
- **Product Dimensions:** 16 x 11 x 11 inches
- **Manufacturer:** OTC

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or to order replacement parts, please contact OTC customer service directly. Refer to the official OTC website or product packaging for the most current contact details and warranty terms.

**Online Resources:** [www.otctools.com](http://www.otctools.com)

