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Beduan 1yf-00130-bbk

Beduan 16-Piece Brake Bleeder Kit: Vacuum Pump Tester Instruction Manual

Model: 1yf-00130-bbk

1. Introduction

This manual provides detailed instructions for the proper assembly, operation, and maintenance of your Beduan 16-Piece Brake Bleeder Kit. This hand-held vacuum pump tester is designed for automotive applications, specifically for bleeding brake systems and testing various vacuum-operated components. Please read this manual thoroughly before use to ensure safe and effective operation.

2. Product Components

The Beduan 16-Piece Brake Bleeder Kit includes the following components:

- Hand-held vacuum pump with integrated pressure gauge
- Fluid reservoir jar with lid
- Two lengths of transparent vacuum hose
- Various adapters for different vehicle applications
- Brake fluid reservoir cap adapter
- Blow-molded storage case



Figure 2.1: All components included in the Beduan Brake Bleeder Kit.

3. Setup and Assembly

Follow these steps to assemble the brake bleeder kit:

1. Connect one end of a transparent vacuum hose to the vacuum pump's inlet port.
2. Attach the other end of the same hose to the lid of the fluid reservoir jar.
3. Connect the second transparent vacuum hose to the remaining port on the fluid reservoir jar lid.
4. Select the appropriate adapter for your vehicle's brake bleeder screw and attach it to the free end of the second vacuum hose.
5. Ensure all connections are secure to prevent air leaks during operation.

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Video 3.1: This video demonstrates the assembly of the Beduan Brake Bleeder Kit, showing how to connect the hoses to the vacuum pump and fluid reservoir, and how to attach the adapter.

4. Operating Instructions (Brake Bleeding)

Perform brake bleeding in a well-ventilated area and wear appropriate safety gear, including eye protection and gloves.

1. Raise the vehicle safely and remove the wheel corresponding to the brake caliper you intend to bleed.

2. Locate the bleeder screw on the brake caliper. Clean any dirt or debris from around the screw.
3. Attach the selected adapter and hose from the assembled kit to the bleeder screw. Ensure a snug fit.
4. Place the fluid reservoir jar in a stable position where it can collect brake fluid.
5. Open the bleeder screw approximately 1/4 to 1/2 turn.
6. Operate the hand-held vacuum pump by squeezing the handle repeatedly. Observe the vacuum gauge; a reading of 10-15 inHg (250-380 mmHg) is typically sufficient.
7. Watch for brake fluid and air bubbles to flow into the reservoir jar. Continue pumping until no more air bubbles are visible in the fluid.
8. Maintain the vacuum while tightening the bleeder screw. Once tightened, release the vacuum pump handle.
9. Remove the adapter and hose from the bleeder screw.
10. Periodically check and refill the vehicle's master cylinder reservoir with fresh brake fluid during the bleeding process to prevent air from entering the system.
11. Repeat the process for each brake caliper, typically starting with the caliper furthest from the master cylinder and working towards the closest.



Figure 4.1: The hand-held vacuum pump with an easy-to-read dual-scale gauge.



Figure 4.2: The kit stored in its case, suitable for automotive brake oil drainage and testing.

5. Maintenance

Proper maintenance ensures the longevity and reliability of your brake bleeder kit:

- **Cleaning:** After each use, thoroughly clean the fluid reservoir jar, hoses, and adapters with an appropriate cleaner to remove all traces of brake fluid. Brake fluid can damage painted surfaces and some plastics.
- **Inspection:** Regularly inspect hoses for cracks, kinks, or signs of wear. Check adapters for damage or deformation. Ensure the vacuum pump's gauge is functioning correctly and the pump maintains suction.
- **Storage:** Store all components in the provided blow-molded case in a clean, dry place away from direct sunlight and extreme temperatures.

6. Troubleshooting

If you encounter issues while using the brake bleeder kit, consider the following:

- **Loss of Suction:** If the vacuum pump does not create or maintain sufficient vacuum, check all hose connections and adapters for leaks. Ensure the bleeder screw is open adequately. Inspect the internal seals of the vacuum pump for wear or damage.
- **Fluid Leaks:** Verify that the reservoir jar lid is securely fastened and all hose connections are tight. Replace any damaged hoses or adapters.
- **Difficulty Attaching Adapters:** Ensure you are using the correct size adapter for your vehicle's bleeder screw. Some bleeder screws may require a specific type of adapter not included in this universal kit.

7. Specifications

Feature	Specification
Brand	Beduan
Model Number	1yf-00130-bbk
Item Weight	2.05 pounds
Package Dimensions	10.6 x 9 x 3.6 inches
Vacuum Gauge Range	0-30 inches Hg, 0-760 mm Hg
Kit Contents	Hand-held vacuum pump, fluid reservoir, hoses, various adapters, storage case

8. Safety Precautions

- Always wear appropriate personal protective equipment, including safety glasses and gloves, when working with brake fluid.
- Brake fluid is corrosive; avoid contact with skin, eyes, and painted surfaces. In case of contact, rinse immediately with plenty of water.
- **Do not use the vacuum pump to siphon liquid directly.** Damage to the internal chamber and seals may result. The fluid reservoir is designed for fluid collection during bleeding.
- Ensure the vehicle is securely supported on jack stands before working underneath it.
- Dispose of used brake fluid responsibly according to local regulations.
- Keep this product out of reach of children.

9. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Beduan website. Keep your purchase receipt as proof of purchase.

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