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COKYIS 47530-13201-71

COKYIS Forklift Brake Master Cylinder 47530-13201-71 User Manual

Models: 4FB15, 5FB25, 5FBE15

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the COKYIS Forklift Brake Master Cylinder, part number 47530-13201-71. This component is designed for specific forklift models including 4FB15, 5FB25, and 5FBE15. Please read this manual thoroughly before attempting any procedures to ensure safety and optimal performance of your equipment.

2. SAFETY INFORMATION

Working with brake systems requires caution. Improper installation or maintenance can lead to serious injury or equipment damage. Always adhere to the following safety guidelines:

- **Professional Installation Recommended:** Installation of this brake master cylinder should only be performed by qualified and experienced technicians.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and protective clothing, when handling brake fluid and components.
- **Brake Fluid Handling:** Brake fluid is corrosive and can damage paint and other surfaces. Avoid contact with skin and eyes. Dispose of used brake fluid according to local regulations.
- **Vehicle Support:** Ensure the forklift is properly supported on a level surface using appropriate jacks and stands before beginning any work. Disconnect the battery to prevent accidental starting.
- **Cleanliness:** Maintain a clean work environment to prevent contamination of the brake system.
- **Torque Specifications:** Always use the manufacturer's specified torque values for all fasteners.
- **Bleeding Procedure:** After installation, thoroughly bleed the brake system to remove all air. Air in the brake lines can lead to brake failure.

3. PRODUCT OVERVIEW

The COKYIS Brake Master Cylinder (Part No. 47530-13201-71) is a critical component of your forklift's hydraulic braking system. It converts the mechanical force from the brake pedal into hydraulic pressure, which is then transmitted through the brake lines to the wheel cylinders or calipers, engaging the brakes. This specific model is designed for compatibility with COKYIS 4FB15, 5FB25, and 5FBE15 forklift series.



Figure 1: COKYIS Forklift Brake Master Cylinder 47530-13201-71. This image displays the complete brake master cylinder unit, showing its main body, fluid reservoir, and connection points.

4. SETUP AND INSTALLATION

The following steps outline a general procedure for replacing a brake master cylinder. Always refer to the specific service manual for your forklift model for detailed instructions and torque specifications.

1. **Preparation:** Park the forklift on a level surface, engage the parking brake, and disconnect the battery. Place a drain pan beneath the master cylinder to catch brake fluid.
2. **Remove Old Master Cylinder:** Disconnect the brake lines from the master cylinder. Use a flare nut wrench to prevent rounding off the fittings. Remove the mounting nuts or bolts securing the master cylinder to the brake booster or firewall. Carefully detach the master cylinder.

3. **Bench Bleeding (Recommended):** Before installing the new master cylinder, it is highly recommended to bench bleed it. This involves filling the reservoir with new brake fluid and using a bench bleeding kit to remove air from the cylinder's internal passages. Follow the instructions provided with the bench bleeding kit.
4. **Install New Master Cylinder:** Mount the new COKYIS master cylinder onto the brake booster or firewall, ensuring proper alignment. Secure it with the mounting nuts or bolts, tightening to the manufacturer's specified torque.
5. **Connect Brake Lines:** Reconnect the brake lines to the master cylinder. Hand-tighten the fittings, then use a flare nut wrench to tighten them to the specified torque.
6. **Fill Reservoir:** Fill the master cylinder reservoir with new, clean brake fluid of the correct type specified for your forklift.
7. **System Bleeding:** Perform a complete brake system bleeding procedure to remove all air from the brake lines and calipers/wheel cylinders. This typically requires two people. Start with the wheel furthest from the master cylinder and work your way closer.
8. **Final Checks:** Check for any leaks around the master cylinder and brake line connections. Test the brake pedal for firm feel and proper operation before returning the forklift to service.

5. OPERATING CONSIDERATIONS

Once the COKYIS Brake Master Cylinder is installed and the brake system is properly bled, the forklift's braking system should function as intended. During operation, pay attention to the following:

- **Brake Pedal Feel:** The brake pedal should feel firm and consistent. A spongy or soft pedal indicates air in the system or other issues requiring immediate attention.
- **Brake Performance:** Ensure the brakes engage smoothly and effectively, bringing the forklift to a controlled stop.
- **Fluid Level:** Regularly check the brake fluid level in the master cylinder reservoir. A low fluid level can indicate a leak in the system.

6. MAINTENANCE

Proper maintenance of your forklift's brake system, including the master cylinder, is crucial for safety and longevity.

- **Brake Fluid Inspection:** Periodically inspect the brake fluid for contamination or discoloration. Brake fluid should be clear or slightly amber. Dark or cloudy fluid may indicate a need for replacement.
- **Fluid Level Check:** Check the brake fluid level at regular intervals, as specified in your forklift's maintenance schedule. Maintain the fluid level between the 'MIN' and 'MAX' marks on the reservoir.
- **Leak Detection:** Regularly inspect the master cylinder, brake lines, and calipers/wheel cylinders for any signs of fluid leaks. Address leaks immediately.
- **Fluid Replacement:** Follow your forklift manufacturer's recommendations for brake fluid replacement intervals. Brake fluid absorbs moisture over time, which can reduce braking performance and corrode internal components.

7. TROUBLESHOOTING

If you experience issues with your forklift's braking system after installing the new master cylinder, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Soft or Spongy Brake Pedal	Air in the brake system; improper bleeding.	Re-bleed the entire brake system thoroughly.
Brake Pedal Goes to Floor	Internal master cylinder failure; severe fluid leak.	Inspect for leaks. If no external leaks, master cylinder may be faulty. Replace if necessary.
Low Brake Fluid Level	Leak in the brake system (lines, calipers, wheel cylinders, master cylinder).	Inspect entire brake system for leaks and repair as needed.
Brakes Dragging or Sticking	Residual pressure in the master cylinder; seized calipers/wheel cylinders.	Check for proper brake pedal return. Inspect calipers/wheel cylinders for proper function.

If troubleshooting steps do not resolve the issue, consult a qualified forklift technician.

8. SPECIFICATIONS

The following specifications are for the COKYIS Forklift Brake Master Cylinder, part number 47530-13201-71.

- **Part Number:** 47530-13201-71
- **Brand:** COKYIS
- **Compatible Forklift Models:** 4FB15, 5FB25, 5FBE15
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches
- **Item Weight:** 1.76 ounces
- **Number of Pieces:** 1
- **Assembly Required:** No (for the master cylinder itself)

9. WARRANTY INFORMATION

Specific warranty details for the COKYIS Forklift Brake Master Cylinder 47530-13201-71 are not provided in this manual. Please refer to your purchase documentation or contact the seller directly for information regarding warranty coverage and terms.

10. SUPPORT

For technical assistance, replacement parts, or further inquiries regarding the COKYIS Forklift Brake Master Cylinder 47530-13201-71, please contact your original point of purchase or an authorized COKYIS distributor. Ensure you have the part number and your forklift model information available when seeking support.