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› [NICHE](#) /

› NICHE Clutch Slave Cylinder Instruction Manual for Suzuki VS1400 Intruder Boulevard S83 (Model 519-CCL2224R)

NICHE 519-CCL2224R

NICHE Clutch Slave Cylinder Instruction Manual

FOR SUZUKI VS1400 INTRUDER & BOULEVARD S83 (MODEL 519-CCL2224R)

Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your NICHE Clutch Slave Cylinder. This component is designed to replace OEM part numbers 23160-38B01 and 23160-38B00, ensuring proper clutch function in compatible Suzuki models.

Compatibility:

- Suzuki Boulevard S83 (2005-2008)
- Suzuki Intruder 1400 VS1400GLP (1987-2004)

Safety Information

Always prioritize safety when working on your vehicle. Improper installation or maintenance can lead to serious injury or damage to the vehicle. If you are unsure about any step, consult a qualified mechanic.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is stable and securely supported before beginning any work.
- Allow the engine and exhaust system to cool down before handling components.
- Dispose of old fluids and parts responsibly according to local regulations.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

What's in the Box

Your package should contain the following item:

- (1) NICHE Clutch Slave Cylinder



Figure 1: NICHE Clutch Slave Cylinder as packaged.

Setup and Installation

The following steps outline a general procedure for replacing a clutch slave cylinder. Specific vehicle service manuals should be consulted for detailed instructions and torque specifications.

1. **Prepare the Vehicle:** Park the motorcycle on a level surface and ensure it is stable. Allow the engine to cool.
2. **Locate the Old Slave Cylinder:** Identify the existing clutch slave cylinder, typically mounted on the engine or transmission casing near the clutch pushrod.
3. **Drain Clutch Fluid:** Place a drain pan beneath the slave cylinder. Loosen the bleeder screw and disconnect the hydraulic line to drain the clutch fluid. Properly dispose of the old fluid.
4. **Remove Old Slave Cylinder:** Unbolt the old slave cylinder from its mounting points. Carefully remove it, ensuring not to damage the clutch pushrod or surrounding components.
5. **Inspect Components:** Examine the clutch pushrod and any seals or gaskets for wear or damage. Replace if necessary.
6. **Install New Slave Cylinder:** Position the new NICHE Clutch Slave Cylinder (Model 519-CCL2224R) in place. Ensure the piston and pushrod align correctly. Secure it with the mounting bolts, tightening to the manufacturer's specified torque.

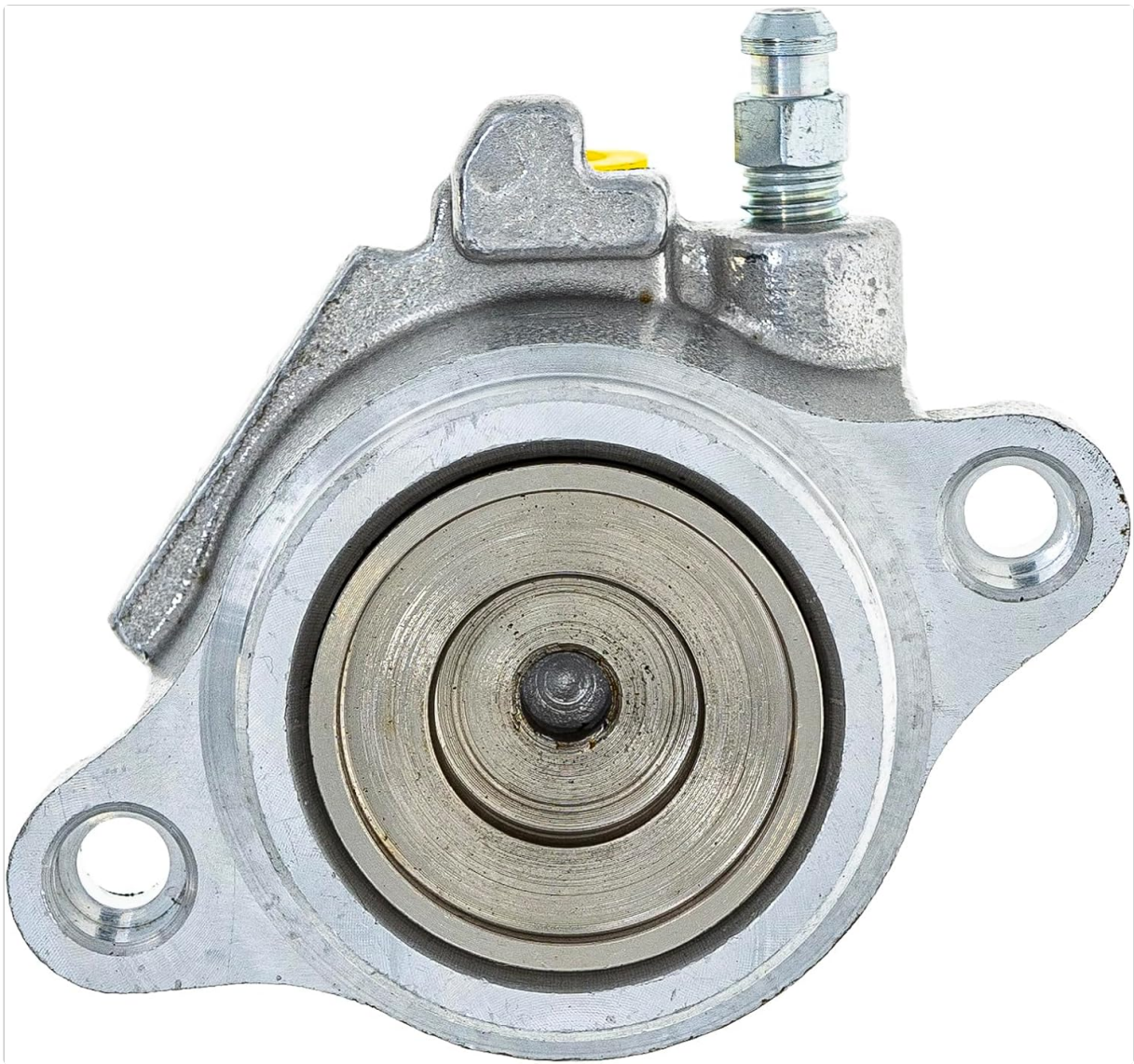


Figure 2: End view of the NICHE Clutch Slave Cylinder, highlighting the piston area for proper alignment during installation.

7. **Connect Hydraulic Line:** Reconnect the hydraulic line to the new slave cylinder.
8. **Fill and Bleed Clutch System:** Fill the clutch master cylinder reservoir with new, recommended clutch fluid. Bleed the clutch system to remove any air, following the vehicle manufacturer's procedure. This typically involves repeatedly squeezing the clutch lever/pedal, opening the bleeder screw to release air and fluid, closing the screw, and then releasing the lever/pedal. Repeat until no air bubbles are visible.
9. **Check for Leaks:** After bleeding, inspect all connections for leaks.
10. **Test Clutch Operation:** Carefully test the clutch for proper engagement and disengagement before riding the vehicle.

Operating

Once correctly installed, the NICHE Clutch Slave Cylinder functions as a critical part of your motorcycle's hydraulic clutch system. When the clutch lever is pulled, hydraulic pressure from the master cylinder activates the slave cylinder's piston. This piston then pushes the clutch pushrod, disengaging the clutch and allowing for gear changes. Releasing the clutch lever relieves the pressure, allowing the clutch to re-engage.

Maintenance

Regular maintenance of your clutch hydraulic system helps ensure longevity and reliable performance.

- **Fluid Level Check:** Periodically check the clutch fluid level in the master cylinder reservoir. Ensure it is between the minimum and maximum marks.
- **Fluid Replacement:** Replace clutch fluid according to your vehicle manufacturer's recommended intervals, typically every 1-2 years, as brake fluid (commonly used for clutches) is hygroscopic and absorbs moisture.
- **Leak Inspection:** Regularly inspect the slave cylinder, hydraulic line, and master cylinder for any signs of fluid leaks. Address leaks immediately to prevent clutch failure.
- **Component Inspection:** During routine service, visually inspect the slave cylinder for external damage or excessive wear.

Troubleshooting

If you experience issues with your clutch, consider the following common problems and potential solutions:

Problem	Possible Cause	Solution
Spongy or soft clutch lever/pedal	Air in the hydraulic system, low fluid level, worn master cylinder.	Bleed the clutch system. Check and top up fluid. Inspect master cylinder.
Difficulty shifting gears	Clutch not fully disengaging, air in system, worn clutch components.	Bleed the clutch system. Inspect clutch plates and pressure plate.
Fluid leak around slave cylinder	Damaged seals, loose connections, cracked housing.	Inspect for source of leak. Tighten connections. Replace slave cylinder if seals are internal or housing is damaged.
Clutch not engaging properly	Insufficient fluid, air in system, worn slave cylinder piston.	Check fluid level and bleed system. Replace slave cylinder if internal wear is suspected.

If these troubleshooting steps do not resolve the issue, it is recommended to seek professional assistance from a qualified mechanic.

Specifications

Key specifications for the NICHE Clutch Slave Cylinder (Model 519-CCL2224R):

- **OEM Part Numbers:** 23160-38B01, 23160-38B00
- **Piston Inner Diameter:** 1.37 Inches
- **Piston Ring Diameter:** 1.77 Inches
- **Outer Diameter:** 3.2 Inches
- **Maximum Pressure:** 13-15 Mpa
- **Includes:** Hydraulic Cylinder with 2 Spacers
- **Item Weight:** 11.2 ounces
- **Product Dimensions:** 3.8 x 3.1 x 2.6 inches
- **Safety Rating:** DOT Certified

- **Exterior Finish:** Polished

Warranty

This NICHE Clutch Slave Cylinder is backed by a **2-Year Warranty**. For specific terms and conditions, please refer to the official NICHE warranty policy or contact customer support.



Figure 3: NICHE 2-Year Warranty.

Support

For further assistance, technical support, or warranty claims, please contact NICHE customer service through their official website or authorized retailers. When contacting support, please have your product model number (519-CCL2224R) and purchase information readily available.

About NICHE:

NICHE is a brand dedicated to providing aftermarket powersports replacement parts. Learn more about the brand and its commitment to quality:

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Video 1: An overview of the NICHE brand and its range of aftermarket powersports replacement parts.