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› Valeo 5591040 Hydraulic Clutch Slave Cylinder User Manual

Valeo 5591040

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Model: 5591040 | Brand: Valeo

INTRODUCTION

This user manual provides important information regarding the Valeo 5591040 Hydraulic Clutch Slave Cylinder. It covers product overview, installation guidelines, operational principles, maintenance recommendations, and troubleshooting tips. Please read this manual thoroughly before installation and use to ensure proper function and safety.

The Valeo 5591040 is designed to meet or exceed original equipment specifications, offering reliable performance for various vehicle makes and models.

PRODUCT OVERVIEW



Image 1: The Valeo 5591040 Hydraulic Clutch Slave Cylinder. This component is typically black, cylindrical, and features mounting points for secure attachment within the vehicle's clutch system. It includes a hydraulic line connection point and a pushrod mechanism.

The Valeo 5591040 is a critical component in a vehicle's hydraulic clutch system. Its primary function is to translate hydraulic pressure from the master cylinder into mechanical force, disengaging the clutch when the pedal is pressed.

Key features include:

- Designed for direct replacement of the original clutch slave cylinder.
- Engineered to meet or surpass original part specifications for performance and durability.
- Features a compact design for straightforward installation.
- Compatible with a wide range of vehicle makes and models.

SETUP AND INSTALLATION

Installation of a hydraulic clutch slave cylinder requires specialized tools and knowledge. It is highly recommended that this procedure be performed by a qualified automotive technician.

General Installation Steps (for qualified technicians):

1. **Safety First:** Ensure the vehicle is securely supported on jack stands or a lift. Disconnect the battery.
2. **Locate and Access:** Identify the existing clutch slave cylinder, typically located on the transmission bell housing. Access may require removing other components.
3. **Drain Fluid:** Place a drain pan beneath the slave cylinder. Carefully disconnect the hydraulic line, allowing clutch fluid to drain.
4. **Remove Old Unit:** Unbolt the old slave cylinder from its mounting points.
5. **Install New Unit:** Position the new Valeo 5591040 slave cylinder and secure it with the appropriate bolts. Ensure the pushrod is correctly seated.
6. **Connect Hydraulic Line:** Reconnect the hydraulic line to the new slave cylinder, ensuring a tight, leak-free connection.
7. **Bleed the System:** This is a critical step. The hydraulic clutch system must be properly bled to remove all air. Follow the vehicle manufacturer's specific bleeding procedure. Air in the system will result in a spongy clutch pedal and improper clutch operation.
8. **Test Operation:** Once bled, check for leaks and test the clutch pedal operation. The pedal should feel firm and engage/disengage the clutch smoothly.

Refer to your vehicle's specific service manual for detailed instructions and torque specifications.

OPERATION

The hydraulic clutch slave cylinder operates as part of a closed hydraulic system. When the driver presses the clutch pedal, hydraulic fluid is displaced from the master cylinder to the slave cylinder. This pressure causes the slave cylinder's internal piston to move, extending a pushrod that acts upon the clutch release fork or directly on the pressure plate.

This action disengages the clutch from the flywheel, allowing the driver to shift gears. When the clutch pedal is released, the pressure is relieved, and the slave cylinder retracts, re-engaging the clutch.

Proper operation relies on a leak-free system and the absence of air within the hydraulic lines.

MAINTENANCE

While the Valeo 5591040 Hydraulic Clutch Slave Cylinder is a sealed unit and does not require routine internal maintenance, regular inspection of the clutch hydraulic system is crucial for its longevity and proper function.

- **Fluid Level Check:** Periodically check the clutch fluid reservoir level (if separate from brake fluid reservoir). Top up with the recommended fluid type as needed.
- **Fluid Condition:** Inspect the clutch fluid for discoloration or contamination. Dark or murky fluid may indicate wear and tear in the system and should be flushed and replaced by a professional.
- **Leak Inspection:** Regularly inspect the slave cylinder, hydraulic lines, and connections for any signs of fluid leaks. Leaks can lead to loss of hydraulic pressure and clutch failure.
- **Pedal Feel:** Pay attention to the feel of the clutch pedal. A spongy, soft, or excessively hard pedal can indicate issues within the hydraulic system.

Address any observed issues promptly to prevent further damage to the clutch system.

TROUBLESHOOTING

This section outlines common issues related to hydraulic clutch slave cylinders and potential causes. Always consult a qualified technician for diagnosis and repair.

Symptom	Possible Cause	Action
Spongy or Soft Clutch Pedal	Air in the hydraulic system; low clutch fluid level; internal slave cylinder seal failure.	Bleed the clutch system; check and top up fluid; inspect for leaks; replace slave cylinder if seals are faulty.
Difficulty Shifting Gears	Clutch not fully disengaging (dragging); air in system; worn slave cylinder; incorrect pedal adjustment.	Bleed the clutch system; inspect slave cylinder for proper function; check pedal adjustment.
Clutch Fluid Leaks	Damaged slave cylinder seals; loose hydraulic line connections; cracked hydraulic line.	Locate and repair the leak; replace slave cylinder or hydraulic line as necessary.
Clutch Pedal Stays on Floor	Complete loss of hydraulic pressure; severe leak; master or slave cylinder failure.	Inspect entire hydraulic system for leaks; replace failed components.

SPECIFICATIONS

The following specifications apply to the Valeo 5591040 Hydraulic Clutch Slave Cylinder:

- Manufacturer:** Valeo
- Brand:** Valeo
- Item Model Number:** 5591040
- Manufacturer Part Number:** 5591040
- Item Weight:** 218 g (approximately 0.48 lbs)
- Package Dimensions:** 35.56 x 25.4 x 10.16 cm (approximately 14 x 10 x 4 inches)
- ASIN:** B01NC09JQH
- Date First Available:** 5 September 2017

WARRANTY AND SUPPORT

For specific warranty information regarding your Valeo 5591040 Hydraulic Clutch Slave Cylinder, please refer to the documentation provided with your purchase or contact your retailer. Valeo products are generally backed by a manufacturer's warranty against defects in materials and workmanship.

For technical support, installation assistance, or warranty claims, please contact Valeo customer service or visit the official Valeo website. Keep your purchase receipt and product details readily available when contacting support.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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