

46re manual valve body

46RE Manual Valve Body: Unleashing the Potential of Your Transmission

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Introduction:

The Chrysler 46RE automatic transmission, while a reliable workhorse in many light trucks and SUVs, often leaves performance enthusiasts wanting more. The inherent limitations of its electronically controlled shifting can be frustrating for those seeking quicker, crisper shifts and more control over gear selection. This is where the 46RE manual valve body comes into play. A 46RE manual valve body allows the driver to manually select gears, providing a significantly enhanced driving experience and unlocking the transmission's hidden potential. This article delves into the intricacies of the 46RE manual valve body, exploring its functionality, benefits, installation considerations, and potential challenges.

Understanding the 46RE Transmission:

Before diving into the specifics of the 46RE manual valve body, it's crucial to understand the 46RE transmission itself. The 46RE is a four-speed automatic transmission widely used in Chrysler, Dodge, and Jeep vehicles from the late 1990s and early 2000s. Known for its robust construction and relatively high torque capacity, the 46RE is a popular choice for both stock vehicles and those undergoing performance modifications. However, its electronically controlled shifting can be sluggish and prone to hunting under certain conditions.

The Role of the Valve Body:

The valve body is the central nervous system of any automatic transmission. It's responsible for controlling fluid flow throughout the transmission, dictating gear selection based on input from the transmission control module (TCM). The TCM receives signals from various sensors, such as the throttle position sensor and the vehicle speed sensor, to determine the optimal gear for a given driving situation. In a standard 46RE, this process is entirely automated.

How a 46RE Manual Valve Body Works:

A 46RE manual valve body replaces the stock valve body, effectively bypassing the TCM's control over gear selection. This allows the driver to manually shift gears, either through a custom-installed shifter or by modifying the existing shifter mechanism. The 46RE manual valve body typically incorporates various manual shift detents and internal modifications to enable manual gear selection. The result is a direct, responsive feel, unlike the often delayed reactions of the electronically controlled system.

Benefits of a 46RE Manual Valve Body:

The advantages of installing a 46RE manual valve body are numerous:

Improved Shift Quality: Manual shifting eliminates the sluggishness associated with the stock 46RE's electronically controlled system. Shifts become significantly quicker and more decisive.

Enhanced Control: Drivers gain complete control over gear selection, allowing them to optimize performance based on driving conditions. This is particularly beneficial in off-road driving or situations requiring precise control.

Increased Performance: By manually selecting gears, drivers can hold lower gears longer, maximizing engine RPM and torque output for increased acceleration and towing capacity.

Customization Options: Many aftermarket 46RE manual valve bodies offer various shift firmness settings, allowing drivers to customize the shifting feel to their preferences.

Potential for Increased Lifespan: Avoiding excessive slipping, a common problem with automatic transmissions under heavy load, contributes to a longer lifespan.

Installation and Considerations:

Installing a 46RE manual valve body requires significant mechanical expertise. It's not a project for novice mechanics. The process involves removing the transmission, disassembling the valve body, carefully installing the new manual valve body, and then reassembling the transmission and reinstalling it in the vehicle. Improper installation can lead to significant

damage to the transmission. Specialized tools and a thorough understanding of transmission mechanics are essential. This often requires professional assistance from a qualified transmission mechanic or specialist.

Potential Drawbacks:

While the benefits are significant, it's important to acknowledge some potential drawbacks:

Increased Complexity: Manual shifting requires more driver attention and skill, especially in challenging driving conditions.

Cost: The cost of a 46RE manual valve body and the associated labor for installation can be substantial.

Warranty Considerations: Installing a 46RE manual valve body will likely void any remaining powertrain warranty.

Choosing the Right 46RE Manual Valve Body:

The market offers a range of 46RE manual valve bodies, each with its own features and specifications. When selecting a valve body, consider the following factors:

Manufacturer Reputation: Choose a reputable manufacturer known for producing high-quality, reliable products.

Shift Firmness Adjustments: Opt for a valve body that offers adjustable shift firmness to fine-tune the shifting feel to your preferences.

Warranty: Check the warranty offered by the manufacturer to ensure protection against defects.

Conclusion:

The 46RE manual valve body represents a significant upgrade for those seeking enhanced control and performance from their 46RE transmission. While the installation process is challenging and requires expertise, the benefits in terms of shift quality, control, and performance potential are substantial. However, careful consideration of the potential drawbacks and a thorough understanding of the installation process are crucial to ensure a successful and safe upgrade.

FAQs:

1. Is installing a 46RE manual valve body a DIY project? Generally not. It's a complex procedure requiring specialized tools and transmission expertise. Professional installation is strongly recommended.

1. Will a 46RE manual valve body damage my transmission? Improper installation can. Professional installation by a qualified mechanic minimizes this risk.
1. How much does a 46RE manual valve body cost? Prices vary depending on the manufacturer and features, typically ranging from several hundred to over a thousand dollars.
1. What kind of shifter will I need? You'll likely need a custom aftermarket shifter designed for manual control, or you might adapt your existing shifter to work with the manual valve body.
1. Will I need to reprogram my ECU? No ECU reprogramming is typically needed, as the manual valve body directly controls gear selection bypassing the TCM.
1. Can I use a 46RE manual valve body with a modified engine? Yes, a manual valve body is compatible with modified engines, enhancing the improved control and performance benefits even more.
1. What are the common signs of a failing 46RE valve body? Symptoms include rough shifting, delayed shifts, slipping, and inability to shift into certain gears.
1. What type of fluid should I use with a 46RE manual valve body? Use the type and grade of ATF (Automatic Transmission Fluid) specified by the manufacturer of your transmission and valve body.
1. Can I reverse my upgrade and return to the stock valve body? Yes, in theory. However, you may need to ensure that all components are in good working condition after removing and replacing the valve body.

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and fuel injection, all of which are covered here as well. There are even step-by-step instructions to fit a modern Hemi into an early-1970s-era Duster as well as a feature about programming aftermarket electronic fuel-injection (EFI) systems. Now that the degree of difficulty in performing these swaps no longer requires a degree in computer science with welding certifications on the side, many are looking at their vintage Mopars in a new light. Whether you want to do this yourself, farm it out to a professional, or if you are just curious about how it is done, this is the guide for you.

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United States. Navy Department. Bureau of Ships, 1949

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Understanding DC Circuits covers the first half of a basic electronic circuits theory course, integrating theory and laboratory practice into a single text. Several key features in each unit make this an excellent teaching tool: objectives, key terms, self-tests, lab experiments, and a unit exam. Understanding DC Circuits is designed with the electronics beginner and student in mind. The authors use a practical approach, exposing the reader to the systems that are built with DC circuits, making it easy for beginners to master even complex concepts in electronics while gradually building their knowledge base of both theory and applications. Each chapter includes easy-to-read text accompanied by clear and concise graphics fully explaining each concept before moving onto the next. The authors have provided section quizzes and chapter tests so the readers can monitor their progress and review any sections before moving onto the next chapter. Each chapter also includes several electronics experiments, allowing the reader to build small circuits and low-cost projects for the added bonus of hands-on experience in DC electronics. Understanding DC Circuits fully covers dozens of topics including energy and matter; static electricity; electrical current; conductors; insulators; voltage; resistance; schematic diagrams and symbols; wiring diagrams; block diagrams; batteries; tools and equipment; test and measurement; series circuits; parallel circuits; magnetism; electromagnetism; inductance; capacitance; soldering techniques; circuit troubleshooting; basic electrical safety; plus much more. - Integrates theory and lab experiments - Contains course and learning objectives and self-quizzes - Heavily illustrated

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