

68rfe full manual valve body

68RFE Full Manual Valve Body: A Comprehensive Guide

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Introduction: Unleashing the Potential of Your 68RFE Transmission

The 68RFE transmission, found in a range of Chrysler, Dodge, and Ram vehicles, is a robust and capable automatic transmission. However, for enthusiasts seeking greater control, faster shift times, and enhanced performance, installing a 68RFE full manual valve body offers a significant upgrade. This comprehensive guide explores the intricacies of 68RFE full manual valve bodies, outlining different methodologies, considerations, and potential challenges.

Understanding the 68RFE Automatic Transmission

Before diving into manual valve bodies, understanding the 68RFE's standard operation is crucial. The 68RFE is an electronically controlled six-speed automatic transmission featuring sophisticated shift strategies optimized for fuel economy and smooth driving. The valve body is the hydraulic "brain" of the transmission, controlling fluid flow to actuate clutches and bands, thereby selecting gears. A 68RFE full manual valve body effectively bypasses the electronic control, allowing the driver to manually select gears via a custom-installed shifter or existing controls, often requiring modifications to the vehicle's computer system.

Methodologies for 68RFE Full Manual Valve Body Installation

Several approaches exist for installing a 68RFE full manual valve body:

1. **Complete Valve Body Replacement:** This involves replacing the factory 68RFE valve body with a fully manual unit. These valve bodies are typically aftermarket modifications designed to eliminate the electronic control and provide complete manual shifting capabilities. This method offers the most complete manual control but requires significant mechanical expertise and potentially custom fabrication.
1. **Manual Shift Kit Integration:** This less intrusive approach uses a manual shift kit that integrates with the factory valve body. These kits usually add manual shift control through various methods, often including additional shift solenoids and modified internal components. This method provides some manual control while retaining some of the automatic functionalities. It's generally less complex than a full replacement.
1. **Hybrid Approaches:** Some aftermarket companies offer hybrid solutions combining aspects of both full replacement and manual shift kits. These options may provide a balance between manual control and retaining some automated functions like upshifting under certain conditions or automatic torque converter lockup management.

Selecting the Right 68RFE Full Manual Valve Body

Choosing the right 68RFE full manual valve body is crucial. Factors to consider include:

Manufacturer Reputation: Opt for reputable manufacturers with a proven track record of producing high-quality, reliable components.

Level of Manual Control: Determine the desired level of manual control. Some valve bodies offer complete manual control in all gears, while others retain some automatic functionalities.

Compatibility: Ensure the valve body is compatible with the specific year and model of your vehicle. Different years may have slight variations in the valve body design.

Price Point: Prices vary significantly depending on features and brand. Research and compare options to find the best value.

Installation Process: A Detailed Overview (General)

Installing a 68RFE full manual valve body is a complex procedure requiring specialized

tools, mechanical expertise, and a thorough understanding of the transmission's internal workings. The process generally includes:

1. **Transmission Removal:** The transmission must be removed from the vehicle. This requires disconnecting various components, including the driveshaft, torque converter, and cooling lines.
2. **Valve Body Removal and Replacement:** The old valve body is carefully removed, and the new 68RFE full manual valve body is installed. This step may require specific tools and precise alignment.
3. **Calibration and Programming:** Depending on the chosen method and valve body, recalibration and programming may be necessary to correctly integrate the new system with the vehicle's computer. This often requires specialized diagnostic equipment.
4. **Transmission Reinstallation:** Once the new valve body is installed and tested, the transmission is carefully reinstalled into the vehicle.
5. **Testing and Adjustment:** After reinstallation, thorough testing and adjustments are critical to ensure proper shifting, fluid pressure, and overall functionality.

Potential Challenges and Considerations

Working with a 68RFE full manual valve body presents several potential challenges:

Complexity: The installation process is intricate and time-consuming, requiring advanced mechanical skills.

Cost: The cost of a 68RFE full manual valve body, installation, and potential additional modifications can be substantial.

Warranty Implications: Modifying the transmission can void the manufacturer's warranty.

Potential for Damage: Improper installation can lead to transmission damage. Professional installation is highly recommended.

Tuning and Calibration: Proper tuning and calibration are vital for optimal performance and reliability.

Maintaining Your Upgraded 68RFE

Regular maintenance is crucial for the longevity of your modified transmission. This includes:

Fluid Changes: Regular fluid and filter changes are essential to maintain lubrication and prevent premature wear.

Inspection: Regular inspection for leaks, unusual noises, or performance issues is recommended.

Professional Service: For complex repairs or maintenance, it is advisable to consult a qualified transmission specialist.

Conclusion

A 68RFE full manual valve body offers a significant performance upgrade for enthusiasts seeking greater control and faster shifting. However, the installation process is complex and demands mechanical expertise. Carefully weighing the benefits, challenges, and associated costs is essential before undertaking this modification. Choosing a reputable installer or possessing the necessary skills and tools is paramount to ensure a successful and reliable outcome. Remember that professional installation is often the safest and most effective way to ensure proper function and prevent costly mistakes.

FAQs

1. What are the benefits of a 68RFE full manual valve body? Increased driver control, faster shift times, and potentially improved performance.
1. Is it difficult to install a 68RFE full manual valve body? Yes, it's a complex procedure requiring advanced mechanical skills.
1. Will installing a 68RFE full manual valve body void my warranty? Likely, yes. Check your warranty documentation.
1. What tools are needed to install a 68RFE full manual valve body? Specialized transmission tools, torque wrenches, and potentially specialized diagnostic equipment.
1. How much does a 68RFE full manual valve body cost? Prices vary significantly depending on brand and features, ranging from several hundred to over a thousand dollars.
1. Can I install a 68RFE full manual valve body myself? Only if you possess significant mechanical expertise. Professional installation is highly recommended.
1. What are the common problems associated with 68RFE full manual valve bodies?

Improper installation, incorrect calibration, and potential for internal damage if not handled carefully.

1. How often should I change the transmission fluid after installing a 68RFE full manual valve body? Follow the manufacturer's recommendations, but more frequent changes might be beneficial due to increased stress on the transmission.
1. Where can I find a reputable installer for a 68RFE full manual valve body? Search online for reputable transmission specialists in your area. Check reviews and ask for references.

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14.Place the replacement filter in position on the valve body and into the oil pump.
15.Reinstall the screw to hold the primary oil filter to the valve body. Torque this screw to 4.5 N-m (40 in-lbs). ...

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by the manual valve in the valve body and line pressure. The Multi-Select solenoid is used primarily to provide 3rd gear and reverse "limp-in" operation. The TCM energizes or operates the ...

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The valve body is also derived from the 545RFE. Most of the other components are found further back in the case of the 68RFE. These include the 2C, low/reverse friction discs, steel plates, the ...

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Application: Issue Date: U660E, U660F, U760E & U760F

Jan 1, 2015 · 68RFE Check Ball & Separator Plate Changes The O/D solenoid was eliminated and the hydraulics changed in 2009 model year. Along with these changes the separator plate changed ...

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ball original valve body. Valve Body Installation Tips 1. Remove the gasket protector plate (Figure 1), and return with the core. Verify three valve body-to-case seals are installed on top of the valve ...

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a 5 or 7 checkball original valve body. Valve Body Installation Tips 1. Remove the gasket protector plate (Figure 1), and return with the core. 2. Install solenoid pack onto valve body front plate and ...

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valve body separator plate, part number 52120004AB. The TSB doesn't distinguish

between the 545RFE and 68RFE; it just says RFE transmission. The 545RFE and 68RFE valve bodies are ...

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in the transmission case. Basically, the opening in the valve body/valve body plate/gasket should be equal to or larger in size than the hole in the case so when the trans-brake is released, the oil ...

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1 screen, transmission regulator valve 1 seal, rear clutch retainer, 1.75 od 3 seal, governor support 1 filter, valve body 1 gasket, transmission oil pump 1 gasket, transmission fluid filter 1 seal, reverse ...

68RFE

The 2006-to-2008 valve body separator plate (part number 545AB) is shown in figure 1. The ... Check ball #7 was removed to allow the 2C solenoid to control the 2C clutch apply in the manual ...

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