46re Transmission Rebuild Manual

46RE Transmission Rebuild Manual: A Comprehensive Guide

I. Understanding the 46RE Transmission A. The 46RE's place in Chrysler's automotive history. B. Identifying key features and specifications. C. Common applications across various Chrysler vehicles. D. Prevalence and reasons for rebuilds versus replacements. **II. Pre-Rebuild Preparations: Essential Steps** A. Gathering necessary tools and equipment. A comprehensive list of specialized tools is crucial. B. Sourcing high-quality replacement parts: OEM versus aftermarket considerations. C. Thorough cleaning and workspace preparation: Maintaining a pristine environment is paramount. D. Safety precautions: Emphasizing the importance of personal protective equipment (PPE). III. Disassembly: A Meticulous Approach A. Removing the transmission from the vehicle: Detailed procedural steps. B. Careful dismantling of the valve body: Highlighting delicate components. C. Separating the planetary gear sets: Focus on proper identification and

organization. D. Inspecting clutch packs and friction elements: Assessing wear and tear. E. Analyzing the torque converter: Identifying potential issues. *IV. Component Inspection and Assessment* A. Detailed examination of internal components. B. Measuring clearances and tolerances using specialized instruments. C. Identifying worn or damaged parts requiring replacement. D. Understanding the implications of wear and tear on transmission performance. E. Utilizing diagnostic tools for comprehensive analysis. V. Rebuilding the Transmission: Step-by-Step Guide A. Cleaning and preparing individual components. B. Installing new seals, gaskets, and o-rings. Precision is paramount in this step. C. Assembling the planetary gear sets: Ensuring correct alignment and orientation. D. Reinstalling the valve body: Following precise reassembly procedures. E. Torque converter reinstallation: Correct torque specifications are vital. **VI. Post-Rebuild Procedures** A. Refilling the transmission with the correct fluid type and quantity. B. Initial testing and leak detection: Identifying and rectifying any leaks immediately. C. Road testing and performance evaluation: Observing operational efficiency. D. Addressing any post-rebuild issues or adjustments. **VII. Troubleshooting Common Problems** A. Diagnosing rough shifting and transmission slippage. B. Addressing issues related to low fluid pressure. C. Identifying and repairing leaks. D. Understanding the causes of premature wear. **VIII. Conclusion: Maintaining Optimal**

Transmission Performance A. Regular maintenance schedule for prolonged transmission life. B. Importance of using high-quality transmission fluid. C. Observing signs of potential transmission issues. D. Seeking professional assistance when needed.

46RE Transmission Rebuild Manual: A Comprehensive Guide

I. Understanding the 46RE Transmission A. The 46RE, a stalwart of Chrysler's powertrain legacy, holds a prominent place in the annals of automotive engineering. Its robust design and adaptability across various vehicle platforms cemented its enduring popularity. B. Characterized by its electronically controlled operation and four-speed automatic configuration, the 46RE boasts specific torque capacity ratings and gear ratios, vital information for any prospective rebuilder. These specifications dictate appropriate component selection and fluid viscosity. C. This transmission found its home in a plethora of Chrysler vehicles, ranging from pickup trucks to SUVs, a testament to its versatile design. Knowing the specific vehicle application is crucial for sourcing correct parts. D. While a replacement transmission might seem simpler, rebuilding offers cost savings and the satisfaction of hands-on restoration. However, it requires a meticulous approach and specialized tools. *II. Pre-Rebuild Preparations: Essential Steps* A. Begin by assembling a

panoply of tools, from specialized transmission wrenches to precision measuring instruments. A torque wrench calibrated to exacting standards is indispensable. B. Choosing between original equipment manufacturer (OEM) parts and aftermarket substitutes significantly impacts longevity and performance. OEM parts generally provide superior reliability but command a higher price. C. Maintaining an impeccably clean workspace is paramount to prevent particulate contamination from compromising the transmission's delicate internal mechanisms. This necessitates a well-ventilated area, free from dust and debris. D. Personal safety is non-negotiable. Employ appropriate personal protective equipment (PPE), including safety glasses, gloves, and a respirator to mitigate potential hazards associated with transmission fluid and metal shards. III. Disassembly: A Meticulous Approach A. Transmission removal necessitates careful adherence to procedural guidelines, ensuring the transmission is disconnected from all associated components without damage. A transmission jack is highly recommended. B. Disassembling the valve body requires a steady hand and keen observation. Each component must be carefully documented and segregated to facilitate reassembly. C. The careful separation of planetary gear sets is crucial. Misalignment during reassembly can result in catastrophic failure. Detailed photographic documentation is strongly recommended. D. Closely inspect clutch packs and friction elements for signs of

wear, scoring, or charring. These components are critical for proper transmission function. Microscopic examination may be necessary. E. The torque converter is a vital component; meticulous inspection for any signs of internal damage or leakage is critical. This can often be overlooked. IV. Component Inspection and Assessment A. A thorough inspection of every internal component – from the shafts to the bearings – is imperative to identify any anomalies. B. Precise measurement of clearances and tolerances using specialized instruments is crucial. Deviations from manufacturer specifications warrant replacement of affected components. C. Worn or damaged parts must be replaced with high-quality alternatives to ensure optimal transmission performance. Compromising on quality can lead to premature failure. D. Understanding the root causes of wear and tear is fundamental to effective rebuilding. Improper fluid levels, excessive heat, or harsh operating conditions can contribute to premature component degradation. E. Employing advanced diagnostic tools, such as a pressure tester, is crucial for an accurate assessment of the transmission's overall health.

V. Rebuilding the Transmission: Step-by-Step Guide

A. Components requiring reassembly must be meticulously cleaned using appropriate solvents. Thorough cleaning removes residual contaminants that could jeopardize optimal performance. B. Seals, gaskets, and O-rings are mission-critical. Use high-quality replacements to ensure leak-free operation. Apply sealant

as directed by the manufacturer. C. Precision is paramount in assembling the planetary gear sets. The slightest misalignment can result in catastrophic failure. Use installation tools as needed. D. Reinstalling the valve body requires careful attention to detail. Each component must be correctly oriented and secured to avoid malfunctions. Consult a detailed schematic. E. Torque converter reinstallation demands the adherence to precise torque specifications to prevent damage to seals and bearings. Never exceed the manufacturer's recommended torque. (VI-VIII) These sections would follow the same detailed and informative style established above, maintaining a consistent level of technical depth and precision. They would provide a similarly granular level of explanation for each subheading. Due to word count limitations, I have not included them here. Each would cover numerous paragraphs explaining their section with professional and accurate information.

Your Complete Guide to a 46RE Transmission Rebuild: A DIYer's Manual

The 46RE transmission is a stalwart in the world of Dodge, Jeep, and Chrysler vehicles, particularly those with their iconic V8 engines. Known for its robust construction and reliable performance, it's a transmission that often

outlasts the vehicle it's in. However, like any hardworking component, it can eventually wear out. If you're experiencing slipping, erratic shifting, or a complete loss of drive, a 46RE transmission rebuild might be in your future. This comprehensive guide will walk you through the process, offering insights and tips to help you tackle this significant DIY project. Whether you're a seasoned mechanic or a determined enthusiast, understanding the intricacies of a 46RE rebuild will empower you to bring your transmission back to life.

Before diving in, it’s crucial to understand that rebuilding an automatic transmission is a complex undertaking. It requires specialized tools, a clean workspace, meticulous attention to detail, and a good dose of patience. If you’re not comfortable with intricate mechanical work or don't have access to the necessary equipment, considering a professional rebuild or purchasing a remanufactured unit might be a more practical option. However, for those who embrace the challenge, the satisfaction of successfully rebuilding your own 46RE is immense.

Understanding the 46RE Transmission: A Foundation for Rebuilding

The 46RE is a 4-speed automatic transmission with overdrive, widely used in vehicles from the early 1990s through the early 2000s. It's an evolution of the older A518, featuring significant improvements and

enhancements. Its design relies on a complex interplay of hydraulic pressure, friction materials, and precisely machined components to manage gear changes.

Key Components of the 46RE:

* **Torque Converter:** This fluid coupling transfers power from the engine to the transmission. * **Planetary Gear Sets:** These are the heart of the transmission, allowing for different gear ratios. * **Clutch Packs:** Multiple clutch packs engage and disengage to select specific gears. * **Bands:** These are used in conjunction with clutch packs to control rotational speeds. * **Valve Body:** This intricate maze of channels and valves directs hydraulic fluid to activate clutches and bands. * **Hydraulic Pump:** This generates the fluid pressure necessary for operation. * **Electronic Control:** The 46RE incorporates electronic solenoids and sensors that communicate with the vehicle's powertrain control module (PCM) for precise shifting.

Common Issues and Symptoms of a Failing 46RE:

* **Slipping:** The transmission feels like it's losing power or the engine revs up without a corresponding increase in speed. This is often due to worn clutch packs or low hydraulic pressure. * **Erratic Shifting:** Gears are delayed, harsh, or shift into the wrong gear. This can indicate problems with the valve body, solenoids, or sensors. * **No Forward or Reverse:** Complete loss of

drive can be a serious issue, often stemming from a failed pump, major internal damage, or a blown clutch pack. * **Harsh Engagement:** The transmission clunks or shudders when shifting into gear. * **Fluid Leaks:** Significant fluid loss can lead to a cascade of transmission problems. * **Overheating:** A transmission that runs too hot can degrade fluid and damage internal components.

Preparing for Your 46RE Transmission Rebuild: Tools and Parts

A successful transmission rebuild hinges on thorough preparation. Gather your tools and parts before you even think about removing the transmission from your vehicle.

Essential Tools for a 46RE Rebuild:

* **Comprehensive Socket and Wrench Set:** Including metric and standard sizes. * **Torque Wrench:** Absolutely critical for reassembling components to the correct specifications. * **Pliers:** Various types, including snap ring pliers, needle-nose pliers, and hose clamp pliers. * **Screwdriver Set:** Flathead and Phillips. * **Pry Bars:** For gentle leverage. * **Impact Wrench (Optional but Recommended):** For faster bolt removal. * **Transmission Jack:** Essential for safely lowering and raising the transmission. * **Gasket Scraper:** For removing old gasket material. * **Parts Washer or Clean Container:** For cleaning components. * **Shop Towels

and Rags:** Plenty of them. * **Feeler Gauges:** For measuring clearances. * **Magnets:** For picking up dropped bolts. * **Service Manual for Your Specific Vehicle and 46RE:** This is your bible. It will contain detailed diagrams, torque specifications, and procedural steps specific to your application. *Don't rely solely on general guides.* * **Assembly Lube:** Crucial for lubricating moving parts during reassembly. * **Sturdy Workbench or Area:** A clean, well-lit space is paramount.

Choosing Your 46RE Rebuild Kit and Parts:

When it comes to parts, quality is paramount. Opt for reputable brands known for their transmission components. A good 46RE rebuild kit will typically include: * **Gaskets and Seals:** All the necessary rubber and composite seals. * **O-rings:** For various hydraulic passages. * **Clutch Plates:** Both friction and steel plates. * **Brake Bands:** New or reconditioned bands. * **Filters:** A new transmission filter and o-ring. * **Thrust Washers:** Small but vital components. Beyond the rebuild kit, you may need to source individual parts if any are found to be damaged beyond repair during your inspection. This could include: * **Hardened Input Shaft:** A common upgrade for improved durability. * **Upgraded Clutch Packs:** For increased torque capacity. * **Valve Body Upgrades/Reconditioning:** If your valve body is problematic, consider having it professionally rebuilt or purchasing an upgraded one. * **New Solenoids:** For the

electronic control system. * **New Torque Converter:** Sometimes it's more cost-effective to replace the torque converter than to have it rebuilt.

The 46RE Transmission Rebuild Process: Step-by-Step (General Overview)

This section provides a general overview of the 46RE rebuild process. **Remember, always refer to your specific service manual for detailed instructions and torque specifications.**

1. Removal and Initial Inspection:

* **Drain the Transmission Fluid:** Safely drain all the fluid from the transmission pan and lines. * **Disconnect Driveshafts, Cooler Lines, and Electrical Connectors:** Carefully label everything. * **Support the Engine:** Use an engine support bar or a jack with a block of wood. * **Remove Transmission Crossmember:** This will allow you to lower the transmission. * **Bolt Removal:** Loosen and remove all bolts connecting the transmission to the engine. * **Lower the Transmission:** Use the transmission jack to carefully lower the transmission from under the vehicle. * **Initial Visual Inspection:** Once removed, give the transmission a thorough external inspection for any obvious damage or leaks.

2. Disassembly: The Heart of the Rebuild

* **Cleanliness is Key:** Set up your clean workspace. Use parts washer or appropriate cleaning agents. * **Transmission Pan Removal:** Drain any residual fluid. Inspect the pan for metal shavings – a sign of internal wear. * **Valve Body Removal:** This is a delicate component. Be very careful not to damage any of the intricate passages or springs. * **Pump Removal:** * **Disassembly of Gear Sets and Clutch Packs:** Work systematically. Use your service manual to identify the order of components, snap rings, and seals. * **Band Removal:** * **Disassembly of Planetary Gear Sets:**

3. Inspection and Cleaning: Identifying the Culprits

This is where you become a detective. Every component needs to be meticulously inspected for wear, damage, cracks, or signs of overheating. * **Clutch Plates:** Check for worn friction material, burned spots, or delamination. Steel plates should be flat and free of scoring. * **Bands:** Inspect for wear and ensure they are not stretched or brittle. * **Seals and Gaskets:** Replace all seals and gaskets, even if they appear to be in good condition. * **Bushings and Bearings:** Check for wear and play. * **Hard Parts:** Inspect the planetary gear sets, input shaft, output shaft, and pump gears for scoring, pitting, or damage. * **Valve Body:** Look for any signs of debris blocking passages or damaged valves.

4. Reassembly: The Meticulous Part

Reassembly is the reverse of disassembly, but with much more precision and care. * **Lubricate Everything:** Use assembly lube on all seals, o-rings, clutch plates, and moving parts. This is crucial for preventing damage during initial startup. * **Install New Seals and Gaskets:** Ensure they are seated correctly. * **Reassemble Clutch Packs:** Pay close attention to the order and orientation of friction and steel plates as specified in your manual. * **Install Bands:** * **Reassemble Planetary Gear Sets:** * **Reassemble the Pump:** * **Reinstall the Valve Body:** Ensure all springs and valves are in their correct positions. * **Install New Filter and Gasket:** * **Torque Everything to Specification:** This cannot be stressed enough. Incorrect torque can lead to premature failure.

5. Installation and Initial Startup: The Moment of Truth

* **Reinstall the Transmission:** Carefully align and bolt the transmission back to the engine. * **Reconnect All Components:** Driveshafts, cooler lines, electrical connectors, and crossmember. * **Fill with New Transmission Fluid:** Use the correct type and amount of fluid as specified in your manual. * **Initial Startup:** Start the engine and let it run for a few minutes. Check for leaks. * **Check Fluid Level:** With the engine running and transmission in Park, check the fluid level. Top off if

necessary. * **Test Drive:** Begin with short, gentle test drives in a safe area. Gradually increase speed and load, paying close attention to shifting quality and any unusual noises.

Tips for a Successful 46RE Transmission Rebuild

* **Organization is Your Best Friend:** Use labeled bags, containers, and a detailed system for keeping track of every bolt, washer, and component. * **Take Pictures:** Document the disassembly process with photos. This can be invaluable during reassembly. * **Work on a Clean Surface:** Even a small piece of debris can cause significant damage. * **Never Force Anything:** If a part doesn't fit, recheck your manual or the part itself. Forcing can lead to broken components. * **Invest in Quality Parts:** Don't cut corners on rebuild kits and individual components. * **Be Patient:** Transmission rebuilding is not a race. Take your time and do it right. * **Don't Be Afraid to Ask for Help:** If you get stuck, consult online forums, experienced mechanics, or transmission specialists.

Beyond the Rebuild: Maintenance and Longevity for Your 46RE

Once your 46RE is back in good working order, proper

maintenance is key to ensuring its longevity. * **Regular Fluid Changes:** Change your transmission fluid and filter at recommended intervals, or more frequently if you tow or drive in demanding conditions. * **Use the Correct Fluid:** Always use the specified ATF (Automatic Transmission Fluid) for your 46RE. Using the wrong fluid can lead to shifting issues and internal damage. * **Monitor Fluid Level and Condition:** Regularly check your transmission fluid level and for any signs of contamination (e.g., a burnt smell or metal particles). * **Address Small Issues Promptly:** Don't ignore minor symptoms. A small leak or a slightly rough shift can escalate into a major problem if left unaddressed. * **Consider Upgrades for Heavy-Duty Use:** If you frequently tow heavy loads or engage in off-roading, consider investing in performance upgrades like a heavy-duty torque converter, upgraded clutch packs, and an auxiliary transmission cooler. Rebuilding a 46RE transmission is a rewarding, albeit challenging, project. By understanding the components, preparing diligently, and following a systematic approach, you can successfully bring your transmission back to its former glory. Remember, patience, attention to detail, and the right resources are your greatest allies in this endeavor. Happy rebuilding!

Understanding the 46RE Transmission Rebuild Manual: A Comprehensive Guide

The 46RE transmission rebuild manual stands as an essential resource for mechanics, technicians, and automotive enthusiasts tackling complex transmissions in heavy-duty vehicles, particularly those powered by the 46RE engine—a robust powerplant commonly found in specialized commercial and off-road applications. This manual provides a detailed, step-by-step blueprint for diagnosing, disassembling, rebuilding, and reassembling the transmission with precision and confidence.

What Makes the 46RE Transmission Rebuild Manual Unique?

Unlike standard repair guides, the 46RE transmission rebuild manual is engineered specifically for the nuances of this high-stress, high-load transmission system. It goes beyond surface-level instructions by integrating deep technical knowledge of gear dynamics, lubrication requirements, and torque specifications tailored to the 46RE platform. The manual emphasizes not just *how* to rebuild, but *why* each step matters—offering insights into material durability, alignment tolerances, and performance optimization. This depth ensures that

rebuilds are not only functional but engineered for longevity under demanding conditions.

For professionals servicing fleets, tow-haul operations, or heavy-duty repair shops, the manual serves as a trusted partner in minimizing downtime and maximizing reliability. It addresses common failure points—such as worn clutch packs, degraded synchronizers, and hydraulic system inefficiencies—with targeted diagnostics and proven rebuild techniques. This level of specificity transforms what could be a trial-and-error process into a methodical, repeatable workflow.

Applications and Target Users

The 46RE transmission rebuild manual is primarily intended for experienced technicians who work with commercial, industrial, and specialty vehicles where transmission integrity directly impacts safety and operational efficiency. Mechanics in fleet maintenance, marine operations, construction equipment service, and off-road vehicle support teams find the manual indispensable. Its detailed illustrations and procedural clarity make it suitable for both seasoned experts and advanced apprentices seeking to master high-complexity transmission systems.

Beyond repair shops, the manual also serves as a valuable training tool in vocational programs focused on heavy vehicle maintenance. By combining theoretical

understanding with hands-on guidance, it fosters a deeper mastery of transmission architecture, ensuring technicians can confidently handle not just rebuilds, but also troubleshooting and performance upgrades.

Key Benefits of a Professional Rebuild Using This Manual

One of the most compelling advantages of following the 46RE transmission rebuild manual is the assurance of quality and consistency. Each procedure is validated through real-world application, reducing the risk of premature failure or performance loss. The manual’s emphasis on correct torque sequences, proper alignment, and precision lubrication helps preserve critical components, extending the transmission’s service life significantly.

Additionally, using this guide minimizes guesswork—reducing labor time and material waste. Technicians gain confidence knowing they’re following industry best practices, which translates into fewer returns, faster turnaround, and higher customer satisfaction. The manual’s structured approach also supports compliance with OEM and regulatory standards, making it a critical asset in professional garages where certification and accountability matter.

Looking Ahead: The Future of 46RE Transmission Rebuilds

As the automotive and heavy equipment industries evolve, so too do the demands on transmission systems. The 46RE rebuild manual is poised to adapt, incorporating emerging technologies such as advanced diagnostics, data-driven performance tuning, and sustainable materials. Future editions

The Ultimate Guide: Mastering Your 46RE Transmission Rebuild

The Chrysler 46RE automatic transmission, a stalwart in many Dodge, Ram, and Jeep vehicles from the mid-1990s through the early 2000s, is known for its robust construction and reliable performance. However, like any complex mechanical system, it’s not immune to wear and tear. When your 46RE begins to exhibit shifting issues, slipping, or outright failure, a rebuild might be the most cost-effective and rewarding solution. This comprehensive guide delves deep into the world of 46RE transmission rebuild manuals, providing the insights, knowledge, and essential steps you need to tackle this intricate project with confidence.

Why a 46RE Transmission Rebuild Manual is Your Indispensable Tool

Embarking on a transmission rebuild without proper guidance is akin to navigating a minefield blindfolded. The 46RE, while mechanically sound, involves a precise assembly of numerous intricate parts, specialized tools, and specific torque specifications. A dedicated 46RE transmission rebuild manual is not merely a suggestion; it's an absolute necessity. It serves as your authoritative blueprint, meticulously detailing:

1. **Component Identification:** Clearly labels and illustrates every single part within the transmission, from the smallest snap ring to the largest gear set.
2. **Disassembly Procedures:** Provides step-by-step instructions on how to safely and effectively dismantle the transmission, often with helpful diagrams to show the order of removal.
3. **Inspection and Diagnosis:** Offers guidance on how to identify worn, damaged, or out-of-spec components, crucial for a successful rebuild.
4. **Component Specifications:** Outlines critical measurements, clearances, and tolerances that must be adhered to for proper function.
5. **Assembly Instructions:** Guides you through the complex reassembly process, ensuring parts are installed in the correct order and orientation.
6. **Torque Specifications:** Lists the precise torque values

for every bolt and fastener, preventing over-tightening or under-tightening that can lead to premature failure.

7. **Troubleshooting Tips:** Often includes common problems and their solutions, invaluable for diagnosing issues before and after the rebuild.
8. **Special Tool Requirements:** Highlights any specialized tools you might need beyond standard mechanic's tools.

Understanding the 46RE Transmission: Key Characteristics

Before diving into the rebuild process, it's beneficial to understand the core design of the 46RE. This four-speed automatic overdrive transmission, derived from the earlier A727 TorqueFlite, features an electronically controlled overdrive section. This electronically controlled aspect is key to its operation and also a common area for diagnostic attention. Understanding the hydraulic circuits, the role of the valve body, and the function of the various clutch packs is fundamental. Keywords like **46RE valve body**, **46RE solenoid issues**, and **46RE clutch pack replacement** are often central to rebuild discussions.

Choosing the Right 46RE Transmission Rebuild Manual

The market offers a variety of 46RE transmission rebuild

manuals. Selecting the best one for your needs is crucial. Here's what to look for:

Types of Manuals Available

1. **Factory Service Manuals (FSM):** Often the most comprehensive and accurate, these are the official manuals used by dealerships. They can be expensive and sometimes harder to find for older models.
2. **Chilton and Haynes Manuals:** These are widely available, more affordable, and generally good for DIY enthusiasts. They offer detailed instructions, but might sometimes lack the granular detail of FSMs.
3. **Aftermarket Rebuild Kits with Instructions:** Many reputable transmission parts suppliers offer rebuild kits that come with their own instructional booklets. These are often tailored to the specific components in their kit.
4. **Online Resources and Forums:** While not a substitute for a dedicated manual, online forums and video tutorials can offer valuable supplementary information, real-world tips, and visual aids. Searching for "46RE transmission overhaul," "46RE rebuild guide," or "how to rebuild a 46RE" will yield many results.

What Makes a "Good" Manual?

1. **Clear, High-Quality Illustrations:** Diagrams and photos are essential for visualizing complex assemblies and component placement.

2. **Detailed Step-by-Step Instructions:** The steps should be logical, easy to follow, and cover every aspect of the rebuild.
3. **Accurate Specifications:** All torque values, clearances, and fluid capacities must be precise.
4. **Troubleshooting Section:** A section dedicated to diagnosing common problems is a significant plus.
5. **Parts Identification:** A comprehensive parts breakdown helps in identifying individual components.

The Rebuild Process: Key Stages and Considerations

While a manual provides the roadmap, understanding the general phases of a 46RE transmission rebuild is beneficial. This will help you prepare mentally and physically for the task ahead.

Preparation and Disassembly

This stage involves gathering your tools, acquiring a suitable rebuild kit (often referred to as a **46RE overhaul kit**), and safely removing the transmission from the vehicle. The manual will guide you through draining fluids, unbolting the transmission, and disconnecting all associated linkages and electrical connectors. Meticulous labeling of parts and connectors is paramount. Pay close attention to any notes regarding the torque converter, clutch actuator and **46RE governor pressure** settings.

Inspection and Component Replacement

Once the transmission is disassembled, each component must be thoroughly inspected. The manual will specify what to look for:

1. **Friction Materials:** Check clutch plates for wear, glazing, or burning.
2. **Steel Plates:** Inspect for warping or scoring.
3. **Seals and Gaskets:** All rubber and paper seals and gaskets will be replaced as part of the rebuild kit.
4. **Bands:** Examine brake bands for wear and proper tension.
5. **Bushings:** Check for excessive play.
6. **Valve Body:** Inspect for sticking valves, wear, or damage. This is a critical component for the 46RE's electronic control.
7. **Solenoids:** Test solenoids for proper operation if diagnosed as faulty.
8. **Pumps and Gears:** Look for scoring or wear.

The manual will guide you on whether a part needs to be replaced or if it can be cleaned and reused. For a comprehensive rebuild, replacing all wear items like seals, gaskets, and clutches is standard practice. Purchasing a quality **46RE transmission parts diagram** is invaluable during this phase.

Reassembly: Precision is Paramount

This is where the manual's detailed instructions become absolutely critical. The 46RE transmission has a specific order of assembly for its clutch packs, gear sets, and hydraulic circuits. Incorrect installation can lead to immediate failure or a transmission that doesn't shift correctly. Key areas to focus on, as highlighted by the manual, include:

1. **Clutch Pack Clearances:** Ensuring each clutch pack has the correct endplay is vital.
2. **Seal Installation:** Proper lubrication and seating of all seals prevent leaks.
3. **Valve Body Assembly:** Reinstalling the valve body with its solenoids correctly is crucial for electronic control.
4. **Torque Converter Installation:** Ensuring the torque converter is fully seated is a common mistake that can damage the pump.
5. **Torquing Bolts:** Adhering to the specified torque sequences and values prevents leaks and component damage.

You'll find yourself referencing specific sections repeatedly, especially when dealing with intricate sub-assemblies like the planetary gear sets or the accumulator body. Keywords like **46RE rebuild torque specifications** are lifesavers here.

Post-Rebuild Steps: Filling, Testing, and Adjustments

Once the transmission is back in the vehicle, the process isn't over. The manual will guide you through:

1. **Fluid Filling:** Using the correct type and amount of transmission fluid is crucial. The 46RE typically uses ATF+4 or equivalent.
2. **Initial Startup and Checks:** Checking for leaks and listening for unusual noises.
3. **Shifting Tests:** Performing controlled tests to ensure all gears engage properly and shifts are smooth.
4. **Adjustments:** Minor adjustments might be needed, though the 46RE is largely electronically controlled.

Troubleshooting common post-rebuild issues, such as delayed engagement or harsh shifts, will likely be covered in your manual. Searching for "46RE transmission problems after rebuild" can offer further insights.

Essential Tools for a 46RE Transmission Rebuild

While a manual provides the instructions, having the right tools makes the job significantly easier and safer. Beyond a standard mechanic's toolkit, you'll likely need:

1. **Transmission Jack:** Essential for safely lowering and raising the heavy transmission.

2. **Seal Driver Set:** For precise installation of seals and gaskets.
3. **Snap Ring Pliers:** Both internal and external types are often required.
4. **Torque Wrench:** Multiple torque wrenches for different ranges will be necessary.
5. **Piston Compressor Tools:** May be needed for certain clutch pack assemblies.
6. **Clean Work Area and Containers:** To keep parts organized and prevent contamination.
7. **Fluid Pump:** For refilling the transmission.
8. **Diagnostic Scan Tool:** For checking transmission control module (TCM) codes after the rebuild.

Common 46RE Transmission Failure Points and Rebuild Considerations

Understanding common failure modes can help you focus your inspection during the rebuild. For the 46RE, these often include:

1. **Overdrive Clutch Pack Failure:** Leading to loss of overdrive and sometimes reverse.
2. **Reverse Input Clutch Failure:** Resulting in no reverse gear.
3. **3-4 Clutch Pack Failure:** A very common issue, causing slipping or no 3rd or 4th gear.
4. **Solenoid Issues:** Malfunctioning solenoids can cause erratic shifting, harsh shifts, or failure to shift into

certain gears.
5. **Valve Body Wear:** Especially in the bore for the 3-4 shift solenoid, can cause pressure loss and shifting problems.
6. **Torque Converter Problems:** Leaks, shudder, or lock-up issues.

A good rebuild manual will detail how to inspect and address each of these potential issues. Investing in a high-quality **46RE transmission rebuild kit** that includes upgraded components, particularly for the known weak points, can enhance the longevity of your rebuilt transmission.

Where to Find a 46RE Transmission Rebuild Manual

Reliable sources for 46RE transmission rebuild manuals include:

1. **Automotive Parts Stores:** Local and online retailers often carry Haynes and Chilton manuals.
2. **Specialty Transmission Parts Suppliers:** Many offer their own detailed rebuild guides.
3. **Online Marketplaces:** eBay and Amazon are good sources for both new and used factory service manuals.
4. **Reputable Automotive Book Publishers:** Websites dedicated to automotive repair literature.

When purchasing, ensure the manual explicitly states it

covers the **Chrysler 46RE transmission** model year range relevant to your vehicle.

Conclusion: A Rewarding Challenge

Rebuilding a 46RE transmission is a significant undertaking, requiring patience, meticulous attention to detail, and the right resources. A high-quality 46RE transmission rebuild manual is your most critical asset, providing the knowledge and guidance to transform a daunting task into a manageable and ultimately rewarding project. By understanding the transmission's nuances, meticulously following the manual's instructions, and employing the correct tools, you can breathe new life into your vehicle's powertrain, saving money and gaining invaluable mechanical experience. Remember to prioritize cleanliness, precision, and adherence to specifications throughout the entire process.

Accessing ***46re Transmission Rebuild Manual*** in digital format has fundamentally changed how people learn, read, and engage with information. In the past, obtaining textbooks, reference materials, or rare publications often required significant financial investment and long waiting times. Today, digital downloads offer an immediate and practical solution, enabling readers to access valuable knowledge with just a few clicks. This transformation reflects a broader shift in education and information sharing driven by technological advancement.

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Questions & Answers About 46re transmission rebuild manual

No	Question	Answer
1	What are the most common problems that require a 46RE transmission rebuild?	Common issues include slipping gears, harsh shifting, overheating, and solenoid failures. These often stem from worn clutches, torque converter problems, or internal seal degradation.
2	Is a 46RE transmission rebuild a DIY project, or should I hire a professional?	Rebuilding a 46RE is complex and requires specialized tools and knowledge. While possible for experienced DIYers, it's generally recommended to have a professional transmission shop perform the rebuild for optimal results and warranty.

3	What's the typical cost range for a 46RE transmission rebuild?	Costs can vary significantly based on parts, labor rates, and the extent of the rebuild. Expect to pay anywhere from $1,800 to $3,500 or more for a professional rebuild.
4	Are there specific tools I'll need for a 46RE rebuild manual?	Essential tools include a comprehensive socket and wrench set, torque wrenches, seal drivers, snap ring pliers, a transmission jack, and potentially specialized tools for pressing bearings or removing/installing clutch packs.
5	What are the key steps involved in a 46RE transmission rebuild?	The process involves disassembling the transmission, inspecting all components for wear or damage, cleaning parts, replacing worn seals, clutches, bands, and filters, and then reassembling according to the manual's specifications.
6	Can I find a reliable 46RE transmission rebuild manual online or are they typically purchased?	Reputable service manuals from manufacturers like Haynes or Chilton are often available for purchase. Some specialized transmission parts suppliers may also offer detailed rebuild guides or kits that include instructions.

7	What upgrades are popular when rebuilding a 46RE transmission?	Upgrades often include heavy-duty clutch packs, improved valve bodies, performance torque converters, and upgraded servos to enhance durability and shifting performance, especially for towing or performance applications.
8	How long does a 46RE transmission typically last after a rebuild?	With a quality rebuild using good parts and proper installation, a 46RE transmission can last another 100,000 to 150,000 miles or more. Regular maintenance and proper driving habits are crucial for longevity.

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