

46rh Transmission Rebuild Manual

46rh Transmission Rebuild Manual 46RH Transmission Rebuild Manual This manual provides a comprehensive guide to rebuilding the 46RH transmission a robust automatic transmission known for its durability and reliability Found in a variety of Chrysler Dodge and Jeep vehicles from the late 1980s to early 2000s the 46RH is a popular choice for both daily driving and offroad adventures This manual aims to equip both seasoned mechanics and DIY enthusiasts with the knowledge and procedures necessary to perform a successful transmission rebuild It covers everything from basic disassembly and inspection to advanced component replacement and final reassembly Understanding the 46RH Transmission The 46RH is a fourspeed automatic transmission featuring a unique design that incorporates a torque converter planetary gearsets friction clutches and hydraulic controls Its robust construction allows it to handle significant torque and horsepower output making it suitable for heavyduty applications Key Features of the 46RH Torque Converter This fluid coupling transmits power from the engine to the transmission allowing for smooth acceleration and efficient power transfer Planetary Gearsets Multiple gearsets provide different gear ratios allowing the transmission to select the optimal gear for varying speeds and loads Friction Clutches These multiplate clutches engage and disengage to change gear ratios within the transmission Hydraulic Control System This system regulates clutch engagement and disengagement ensuring precise gear selection and smooth operation Governor This device monitors vehicle speed and signals the transmission control unit TCU to select the appropriate gear ratio Why Rebuilding is Necessary Over time the 46RH transmission can experience wear and tear leading to several common issues 2 Slipping or Shuddering This indicates worn clutches or bands which are responsible for transmitting power between gear sets Hard Shifting This can result from worn friction materials contaminated fluid or problems with the hydraulic control system Noisy Operation Loud clunking or grinding sounds can be indicative of worn gears bearings or other internal components Fluid Leaks External leaks can indicate worn seals gaskets or damaged transmission case Prerequisites Basic Mechanical Skills Familiarity with hand tools and mechanical principles is essential Workshop Space A welllit clean and organized workspace is necessary for efficient work Appropriate Tools Ensure you have the required tools for disassembly inspection and reassembly including wrenches sockets screwdrivers and a torque wrench Transmission Service Manual This manual should be used in conjunction with the manufacturers specific service manual for detailed component specifications and torque values Safety Equipment Always wear safety glasses gloves and appropriate clothing when working on a vehicle Steps Involved in a

46RH Transmission Rebuild 1 Disassembly Remove the transmission from the vehicle This requires disconnecting the driveshaft transmission lines and electrical connections Inspect the transmission case for leaks cracks or damage Carefully disassemble the transmission removing components in the proper order This includes removing the torque converter valve body planetary gearsets clutches and other internal components 2 Inspection and Cleaning Inspect each component for wear damage or excessive wear Clean all components thoroughly using a parts cleaner and compressed air Measure critical dimensions of worn components to determine replacement needs 3 Component Replacement Replace worn or damaged components such as clutches bands seals gaskets and bearings 3 Use highquality replacement parts to ensure optimal performance and longevity 4 Reassembly Reassemble the transmission following the manufacturers specifications Thoroughly clean the transmission case and valve body before installation Install new gaskets and seals Torque all fasteners to the manufacturers specifications 5 Testing and Adjustment Fill the transmission with the correct type and quantity of fluid Start the engine and check for leaks Adjust the valve body linkage for optimal gear shifting Test drive the vehicle to ensure proper operation Tips for Successful Transmission Rebuilding Maintain a clean and organized workspace Use proper tools and techniques for disassembly and reassembly Follow the manufacturers specifications for torque values fluid type and component installation Use highquality replacement parts to ensure longevity and reliability Inspect all components thoroughly before reassembly Thoroughly clean the transmission case and valve body before installation Test drive the vehicle after the rebuild to ensure proper operation Conclusion Rebuilding a 46RH transmission is a challenging but rewarding task By following the guidelines provided in this manual and utilizing highquality parts you can restore your transmission to factory specifications and extend its lifespan Remember safety is paramount so always take precautions and consult the manufacturers service manual for detailed information and specifications

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