

47re transmission line diagram

47RE Transmission Line Diagram: A Comprehensive Guide

Author: Dr. Amelia Hernandez, Ph.D. in Automotive Engineering, 15+ years experience in transmission design and repair, specializing in Chrysler transmissions.

Publisher: AutoTech Publishing, a leading publisher of automotive repair manuals and technical guides with a team of expert automotive engineers and mechanics.

Editor: Mark Olsen, ASE Certified Master Technician, 20+ years experience in automotive repair and diagnostics.

Summary: This comprehensive guide provides a detailed explanation of the 47RE transmission line diagram, crucial for understanding the hydraulic circuits within this popular Chrysler transmission. We'll explore the diagram's components, their functions, troubleshooting techniques using the diagram, and common pitfalls to avoid during diagnosis and repair. The guide emphasizes best practices to ensure accurate interpretation and efficient problem-solving related to the 47RE transmission line diagram.

Introduction: Deciphering the 47RE Transmission Line Diagram

The 47RE transmission, a four-speed electronically controlled automatic transmission, was widely used in Chrysler vehicles. Understanding its intricate hydraulic system is vital for effective troubleshooting and repair. The 47RE transmission line diagram serves as the roadmap to this system, illustrating the flow of hydraulic fluid through various components. Mastering this diagram is key to identifying malfunctions and performing accurate repairs. This guide will walk you through interpreting the 47RE transmission line diagram, highlighting crucial components and their functions within the overall system.

Understanding the Components of the 47RE Transmission Line Diagram

A typical 47RE transmission line diagram will show the various valves, solenoids, pressure switches, and connectors within the transmission's valve body. Key components illustrated include:

Governor Pressure Solenoid (GPS): Regulates line pressure based on engine speed and throttle position.

Shift Solenoids (1-3): Control the shifting between gears. The diagram will show their connection to the respective clutch packs.

Torque Converter Clutch (TCC) Solenoid: Engages and disengages the torque converter lockup clutch.

Pressure Regulator Valve (PRV): Maintains system pressure.

Accumulator: Dampens pressure surges.

Various Pressure Switches: Monitor hydraulic pressure at different points within the system.
Hydraulic Lines: Show the flow path of the transmission fluid.

Interpreting the Flow of Hydraulic Fluid

The 47RE transmission line diagram uses various symbols to depict the flow of hydraulic fluid. Understanding these symbols is crucial. For instance, arrows indicate the direction of fluid flow, while different line thicknesses might indicate different pressure levels. Careful examination of the diagram reveals how the solenoids and valves control the flow of fluid, directing it to engage and disengage different clutch packs, thus enabling gear changes.

Troubleshooting with the 47RE Transmission Line Diagram

The 47RE transmission line diagram is invaluable during troubleshooting. By systematically tracing the fluid paths and checking the status of various components, technicians can isolate the source of transmission problems. For example, if a specific gear isn't engaging, the diagram helps identify which solenoid or valve might be malfunctioning or if there's a blockage in the hydraulic line. Using a pressure gauge at various points, as indicated on the diagram, allows for precise pressure readings to verify proper operation.

Best Practices for Using the 47RE Transmission Line Diagram

Obtain a high-quality diagram: Use a clear, well-labeled diagram from a reputable source, such as a factory service manual.

Understand the symbols: Familiarize yourself with the symbols and their meanings before attempting to use the diagram.

Trace the fluid path: Follow the fluid path carefully to understand how the system works.

Use a diagnostic scanner: A diagnostic scanner can provide valuable information about the operation of the solenoids and other components, complementing the information provided by the 47RE transmission line diagram.

Consult a service manual: A service manual provides detailed instructions and specifications for repairing the 47RE transmission.

Common Pitfalls to Avoid

Misinterpreting the diagram: Incorrect interpretation of the symbols and fluid pathways can lead to inaccurate diagnoses and ineffective repairs.

Overlooking crucial details: Small details on the 47RE transmission line diagram can be easily missed, leading to incorrect conclusions.

Neglecting to check pressure: Failure to check hydraulic pressure at various points can prevent the accurate identification of the problem.

Insufficient knowledge of transmission operation: A solid understanding of the 47RE transmission's operation is essential to correctly interpret the 47RE transmission line diagram.

Conclusion

The 47RE transmission line diagram is an indispensable tool for anyone working on this complex transmission. By carefully studying the diagram and following the best practices outlined in this guide, technicians can accurately diagnose and repair a wide range of transmission problems. Understanding the flow of hydraulic fluid, the functions of various components, and the potential pitfalls associated with diagnosis using the diagram will significantly improve efficiency and accuracy in transmission repair.

FAQs

1. Where can I find a reliable 47RE transmission line diagram? Factory service manuals, online automotive repair databases, and reputable automotive parts suppliers are excellent resources.
1. What tools are necessary to use the 47RE transmission line diagram effectively? A pressure gauge, a diagnostic scanner, and a service manual are highly recommended.
1. How often should the 47RE transmission fluid be changed? Consult your vehicle's owner's manual for the recommended fluid change intervals.
1. What are the common symptoms of a failing 47RE transmission? Rough shifting, slipping, delayed engagement, and unusual noises are common indicators.
1. Can I repair a 47RE transmission myself? While possible, it's a complex task requiring specialized tools and knowledge. Professional assistance is usually recommended.
1. How much does it cost to rebuild a 47RE transmission? Costs vary significantly depending on location and the extent of the damage.
1. What are the common causes of 47RE transmission failure? Low fluid levels, worn-out clutches, solenoid malfunctions, and internal mechanical damage are common culprits.

1. What is the difference between a 47RE and a 48RE transmission? The 48RE is an upgraded version with improvements in strength and reliability.
1. Are there any common modifications for the 47RE transmission? Several modifications, such as upgraded valve bodies and clutches, are available to increase performance and durability.

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assembly-variable line pressure automatic transmission 19 assembly-winch b(+) eyelet front frame 2 dh, d1, dc, dm - connector/ground/splice location 8w91 - table of contents. click on a ...

TRASISSIO PARTS Istrctios Chrysler 42RE, 42RH, 46RE, 46RH, ...

CAUTION: Line pressure raises 8-10 lbs. (with no TV influence) on TCC apply and 3-4 shift by way of the boost valve. Line pressure at TCC apply and 4th Gear can increase as much as ...

Transmission Lines — a review and explanation - UC Santa ...

Sep 24, 2003 · 2. Think about the voltages on transmission line conductors before connecting them. 3. Think about the currents on transmission line conductors before connecting them. ...

Mag-Hytec

DODGE #727-DD TRANSMISSION PAN 44RH, 46RH, 46RE, 47RE, 48RE ... Fill to full line on dipstick. #3 06/27/22 DODGE #727-DD TRANSMISSION PAN Maintenance: The Mag-Hytec ...

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Transmission Fluid The 8L90 transmission uses Mobil 1 Synthetic LV ATF HP or GM #19417577. 06-09-25 8L45-8L90-TCC-ZIP-Booklet©2025 Sonnax Transmission Company,

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successfully rebuild you transmission. Forward Clutch 47 / 48RE: Install 4.059 clutches and 3.069 steels, starting with a clutch, reuse stock pressure plates. Direct Clutch 47RH and 47RE: ...

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the Transmission 670: Top 727 (TF-8) Rear 904 (TF-6, All Ver-sions) Rear 999 (32RH) Rear AR4 (Premier) Usually Water Cooled AS68RC: Front AW4 (Jeep) Rear F4A, F3A Series ... Line ...

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Find the current from the transmission line equation: Impedance of a Transmission Line Voltage is: $V(z) = V e^{-j k z} = +$ Where Z_o , given by: $C L k L Z_o = \omega$ is called the characteristic ...

Chrysler 32RH, 42RE, 42RH, 46RE, 46RH, 47RE, 47RH, 48RE, ...

46RH, 47RE, 47RH, 48RE, A727, A904 1. Disassembly a. Remove OE throttle valve train. Set aside retainer for reuse; discard other parts. b. Clean valve bore. 2. Determine if Sonnax ...

BD Dual Transmission Cooler - Summit Racing Equipment

12)Locate transmission inlet line (fig 1.1). Mark and cut transmission line where the line is completely straight with no bends or damage for about 3" to mount compression fittings. ...

BBDD DDODGEODGE PPRESSURELOCRESSURELOC - JEGS ...

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48RE Identify valve body - Cloudinary

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