

# 46re transmission sensor diagram

## Decoding the 46RE Transmission Sensor Diagram: A Comprehensive Guide

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**Keyword:** 46RE transmission sensor diagram

### Introduction:

The 46RE transmission, a four-speed automatic transmission used in various Chrysler vehicles, relies heavily on a network of sensors to monitor its internal operation and provide crucial data to the Transmission Control Module (TCM). Understanding the 46RE transmission sensor diagram is paramount for effective diagnosis and repair. This article provides a comprehensive overview of the sensor locations, their functions, and troubleshooting techniques, utilizing a detailed analysis of the 46RE transmission sensor diagram. We'll delve into the importance of each sensor, exploring how they contribute to the overall smooth functioning of the transmission and how malfunctions can manifest as various drivability issues. This guide aims to empower both professional mechanics and DIY enthusiasts with the knowledge to interpret the 46RE transmission sensor diagram and effectively diagnose problems.

### Understanding the 46RE Transmission Sensor Network

The 46RE transmission sensor diagram reveals a sophisticated network of sensors working in concert. These sensors monitor various parameters, including:

**Input Speed Sensor (ISS):** Located on the transmission case, this sensor measures the speed of the input shaft. This data is critical for calculating gear ratios and shift points. A faulty ISS often results in harsh shifts, slipping, or inability to shift. The 46RE transmission sensor diagram clearly shows its position relative to other components.

**Output Speed Sensor (OSS):** This sensor, also located on the transmission case, measures the speed of the output shaft. The difference between the ISS and OSS speeds allows the TCM to determine torque converter lockup and slippage. Problems with the OSS can lead to similar symptoms as a faulty ISS. Referencing the 46RE transmission sensor diagram helps pinpoint its exact location for accurate testing.

**Turbine Speed Sensor (TSS):** Measures the speed of the turbine within the torque converter. This is vital for monitoring torque converter lockup and identifying slippage. A faulty TSS can cause issues with acceleration and fuel economy. Locating the TSS on the 46RE transmission sensor diagram is essential for proper diagnosis.

**Throttle Position Sensor (TPS) (Indirectly Related):** While not directly on the transmission, the TPS signal is crucial for the TCM to determine appropriate shift points based on engine load and driver demand. Understanding how the TPS interacts with the transmission system, as illustrated in the 46RE transmission sensor diagram's broader context, is vital.

**Manifold Absolute Pressure (MAP) Sensor (Indirectly Related):** Similar to the TPS, the MAP sensor provides engine load information, influencing the TCM's shift decisions. The 46RE transmission sensor diagram's context helps understand the relationship between engine performance and transmission behavior.

**Transmission Fluid Temperature Sensor (TFTS):** Measures the temperature of the transmission fluid. This information is essential for optimal shift quality and protecting the transmission from overheating. The 46RE transmission sensor diagram indicates its placement to enable proper access during testing or replacement.

**Govern Pressure Sensor:** This sensor monitors the hydraulic pressure within the transmission, which is crucial for proper shifting and clutch engagement. A malfunctioning govern pressure sensor can cause various shifting problems. Accurate location from the 46RE transmission sensor diagram is key for diagnosis.

## Interpreting the 46RE Transmission Sensor Diagram

The 46RE transmission sensor diagram typically presents a simplified schematic or a detailed exploded view of the transmission, clearly indicating the location of each sensor. It may include wire color codes, connector locations, and even wiring diagrams for further troubleshooting. Understanding the diagram requires careful examination of its various components and their interconnections. Many online resources and repair manuals provide detailed 46RE transmission sensor diagrams, allowing for precise identification and testing.

## Troubleshooting Using the 46RE Transmission Sensor Diagram

When troubleshooting transmission issues, the 46RE transmission sensor diagram becomes an invaluable tool. By identifying the symptoms and referencing the diagram, you can pinpoint the likely culprit. For instance, if you experience harsh shifting, you might check the ISS, OSS, TPS, and TFTS based on their roles as detailed within the 46RE transmission sensor diagram. Always consult a reliable 46RE transmission sensor diagram specific to your vehicle's year and model, as minor variations may exist.

## Advanced Diagnostics and Data Acquisition

Modern diagnostic tools, such as scan tools and data loggers, can access real-time data from the transmission sensors. By observing the sensor readings during operation, a skilled technician can identify subtle anomalies that might not be apparent through visual inspection alone. This data,

combined with the visual information provided by the 46RE transmission sensor diagram, enables a precise diagnosis.

## Repair and Replacement Procedures

Once a faulty sensor is identified using the 46RE transmission sensor diagram and diagnostic tools, replacement is often straightforward. However, accessing certain sensors may require partial disassembly of the transmission, which should only be undertaken by experienced technicians. Always follow the manufacturer's specifications and recommended procedures during repair and replacement.

## Conclusion:

The 46RE transmission sensor diagram is a crucial resource for anyone working on this type of transmission. Understanding its intricacies and utilizing it in conjunction with diagnostic tools allows for effective troubleshooting and repair. This detailed guide provides a comprehensive overview, empowering both professionals and DIY enthusiasts with the knowledge to diagnose and solve problems related to the 46RE transmission's sensor network. Remember to always consult a reputable repair manual and 46RE transmission sensor diagram specific to your vehicle's year and model for accurate and safe repairs.

## FAQs:

1. Where can I find a 46RE transmission sensor diagram? You can find diagrams in online repair manuals (like those from Mitchell or AllData), factory service manuals, and some specialized automotive websites.
1. What happens if the input speed sensor fails? Failure can lead to harsh shifts, slipping, incorrect gear selection, or even the inability to shift.
1. How can I test a 46RE transmission sensor? Use a multimeter to check for continuity and voltage according to the specifications in your repair manual. A scan tool can also read sensor data.
1. Is it difficult to replace a 46RE transmission sensor? The difficulty varies depending on the sensor's location. Some are easily accessible, while others may require partial transmission disassembly.

1. What are the common symptoms of a faulty 46RE transmission sensor? Symptoms include harsh shifts, slipping, delayed shifts, inability to shift into certain gears, and transmission overheating.
1. Can I drive with a faulty 46RE transmission sensor? While you might be able to drive, it's risky. Continued driving with a faulty sensor can lead to further transmission damage.
1. How much does it cost to replace a 46RE transmission sensor? The cost varies depending on the sensor and labor charges. It's best to get a quote from a qualified mechanic.
1. Are all 46RE transmission sensor diagrams the same? No, minor variations exist depending on the vehicle's year, model, and specific options.
1. Can I use a generic 46RE transmission sensor diagram? While you might find some similarities, it's crucial to use a diagram specific to your vehicle's year and model for accuracy.

#### Related Articles:

1. 46RE Transmission Troubleshooting Guide: A step-by-step guide to diagnosing common 46RE transmission problems.
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1. 46RE Transmission Shift Solenoid Diagnosis: A guide on diagnosing and replacing faulty shift solenoids.
1. Common 46RE Transmission Codes and Their Meanings: A comprehensive list of common diagnostic trouble codes (DTCs) and their interpretations.
1. 46RE Transmission Overhaul Guide: A detailed guide for a complete overhaul of the 46RE transmission.
1. 46RE Transmission Wiring Diagram: A visual representation of the wiring harness and connectors for the 46RE transmission.
1. Choosing the Right Transmission Fluid for Your 46RE: A guide on selecting the correct type and viscosity of transmission fluid.

**46re transmission sensor diagram:** *Haynes Techbook Cummins Diesel Engine Manual* Editors of Haynes Manuals, 2020-02-25 The mysteries of the versatile LS series engines are unlocked in the Haynes Techbook Cummins Diesel Engine Manual. Covering everything from engine overhaul, cylinder head selection and modification, induction and fuel systems, camshafts and valve train, to beefing-up the bottom end, turbo and supercharger add-ons, engine swaps and extreme builds, this manual will help you get the most from your LS-powered vehicle.

**46re transmission sensor diagram: Harley-Davidson Evolution V-twin Owner's Bible** Moses Ludel, 1997 Covers ALL Harley-Davidson Evolution V-Twin models from 1984 through 1998. This book provides all Harley-Davidson Evolution V-Twin owners, would be owners and enthusiasts all the information necessary to greater enjoyment of these fantastic bikes. Filled with buying and riding advice, service procedures, and performance and accessory modification how-tos. This book covers everything essential to better understanding these bikes. Whether your bike is an FLHS Electra Glide, an XLH Sportster 1200, or a Buell S3T Thunderbolt, Moses Ludel's Harley-Davidson Evolution V-Twin Owner's Bible (TM) will give you precisely the kind of information you need to buy, maintain, and enjoy your Harley-Davidson for years to come. With his years of experience as a mechanic and automotive writer, Moses Ludel explains dozens of topics, such as assessing a

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deliberation. This book is dedicated to investigating the political implications of interdependent citizens within the context of the 1984 presidential campaign as it was experienced in the metropolitan area of South Bend, Indiana. Hence this is a community study in the fullest sense of the term. National politics is experienced locally through a series of filters unique to a particular setting and its consequences for the exercise of democratic citizenship.

**46re transmission sensor diagram:** Sounds Like Christmas Robert Munsch, 2020-10-06 When Grandma asks Lincoln and Georgia to decorate the Christmas tree, she has no idea what she's getting into. Grandma is baking Christmas cookies, so she asks Lincoln and Georgia to decorate the tree. They put on the lights, and the garlands, and the balls, and the candy canes. Then Olivia runs upstairs and brings back a toy bird. She puts it on a branch, turns it on and it goes TWEET TWEET TWEET. HA! says Lincoln I can beat that. He runs to his room and gets his sound effects key chain, hangs it on the tree, and makes it go ZAP ZAP ZAP. In no time the competition creates a cacophony, with the neighbour's dog and eventually both Grandma and Grandpa yelling on top of the tree. Eventually Grandpa points out that no parents means no Christmas presents -- but the kids point out that Santa is sure to come through for them, and they head off to go to finish off the Christmas cookies and to to bed to wait for Christmas morning.--

**46re transmission sensor diagram:** Designing and Tuning High-Performance Fuel Injection Systems Greg Banish, 2009 Greg Banish takes his best-selling title, Engine Management: Advanced Tuning, one step further as he goes in-depth on the combustion basics of fuel injection as well as benefits and limitations of standalone. Learn useful formulas, VE equation and airflow estimation, and more. Also covered are setups and calibration, creating VE tables, creating timing maps, auxiliary output controls, start to finish calibration examples with screen shots to document the process. Useful appendixes include glossary and a special resources guide with standalone manufacturers and test equipment manufacturers

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**46re transmission sensor diagram:** How to Rebuild GM LS-Series Engines Chris Werner, 2008 With the increasing popularity of GM's LS-series engine family, many enthusiasts are ready to rebuild. The first of its kind, How to Rebuild GM LS-Series Engines, tells you exactly how to do that. The book explains variations between the various LS-series engines and elaborates up on the features that make this engine family such an excellent design. As with all Workbench titles, this book details and highlights special components, tools, chemicals, and other accessories needed to get the job done right, the first time. Appendices are packed full of valuable reference information, and the book includes a Work-Along Sheet to help you record vital statistics and measurements along the way.

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universal 600-cfm 1850 models, the Dominator, and now the Avenger have stood the test of time and are the leading carburetors in the high-performance engine market. To many enthusiasts, the operation, components, and rebuilding procedures remain a mystery. Yet, many carburetors need to be rebuilt and properly set up for a particular engine package. Veteran engine building expert and automotive author Mike Mavrigian guides you through each important stage of the rebuilding process, so you have the best operating carburetor for a particular engine and application. In addition, he explains carb identification as well as idle, mid-range and high-speed circuit operation, specialty tools, and available parts. You often need to replace gaskets, worn parts, and jets for the prevailing weather/altitude conditions or a different engine setup. Mavrigian details how to select parts then disassemble, assemble, and calibrate all of the major Holley carburetors. In an easy-to-follow step-by-step format, he shows you each critical stage for cleaning sensitive components and installing parts, including idle screws, idle air jets, primary/secondary main jets, accelerator pumps, emulsion tubes, and float bowls. He also includes the techniques for getting all of the details right so you have a smooth-running engine. Holley carburetor owners need a rebuilding guide for understanding, disassembling, selecting parts, and reassembling their carbs, so the carb then delivers exceptional acceleration, quick response, and superior fuel economy. With *Holley Carburetors: How to Rebuild* you can get the carb set up and performing at its best. And, if desired, you can move to advanced levels of tuning and modifying these carbs. If you're looking for the one complete book that helps you quickly and expertly rebuild your Holley and get back on the road, this book is a vital addition to your performance library.

**46re transmission sensor diagram: Practical Engine Airflow** John Baechtel, 2015-12-15 The efficient flow of air through an engine is instrumental for producing maximum power. To maximize performance, engine builders seek to understand how air flows through components and ultimately through the entire engine. Engine builders use this knowledge and apply specific practices and principles to unlock horsepower within an engine; this applies to all engine types, including V-8s, V-6s, and imported 4-cylinder engines. Former Hot Rod magazine editor and founder of Westech Performance Group John Baechtel explains airflow dynamics through an engine in layman's terms so you can easily absorb it and apply it. The principles of airflow are explained; specifically, the physics of air and how it flows through major engine components, including the intake, heads, cylinders, and exhaust system. The most efficient and least restricted path through an engine is the key to high performance. To get to this higher level, the author explains atmospheric pressure, air density, and brake specific fuel consumption so you understand the properties of fuel for tuning. Baechtel covers the primary factors for optimizing the airflow path. This includes the fundamentals of air motion, air velocity, and boundary layers; obstructions; and pressure changes. Flowing air through the heads and the combustion chamber is key and is comprehensively explained. Also comprehensively explored is the exhaust system's airflow, in particular primary tube size and length, collector function, and scavenging. Chapters also include flowbench testing, evaluating flow numbers, and using airflow software. In the simplest terms, an engine is an air pump. Whether you're a professional engine builder or a serious amateur engine builder, you must understand engine airflow dynamics and must apply these principles if you want to optimize performance. If you want to achieve ultimate engine performance, you need this book.

**46re transmission sensor diagram: GM Automatic Overdrive Transmission Builder's and Swapper's Guide** Cliff Ruggles, 2008 Vehicle maintenance.

**46re transmission sensor diagram: How to Rebuild Honda B-Series Engines** Jason Siu, 2008 The first book of its kind, *How to Rebuild the Honda B-Series Engine* shows exactly how to rebuild the ever-popular Honda B-series engine. The book explains variations between the different B-series designations and elaborates upon the features that make this engine family such a tremendous and reliable design. Honda B-series engines are some of the most popular for enthusiasts to swap, and they came in many popular Honda and Acura models over the years, including the Civic, Integra, Accord, Prelude, CRX, del Sol, and even the CR-V. In this special Workbench book, author Jason Siu uses more than 600 photos, charts, and illustrations to give simple step-by-step instructions on

disassembly, cleaning, machining tips, pre-assembly fitting, and final assembly. This book gives considerations for both stock and performance rebuilds. It also guides you through both the easy and tricky procedures, showing you how to rebuild your engine and ensure it is working perfectly. Dealing with considerations for all B-series engines-foreign and domestic, VTEC and non-VTEC-the book also illustrates many of the wildly vast performance components, accessories, and upgrades available for B-series engines. As with all Workbench titles, this book details and highlights special components, tools, chemicals, and other accessories needed to get the job done right, the first time. Appendices are packed full of valuable reference information, and the book includes a Work-Along-Sheet to help you record vital statistics and measurements along the way. You'll even find tips that will help you save money without compromising top-notch results.

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Author Trenton McGee, 4x4 suspension expert and host of Outdoor Channels Off-Road Adventures, explains 4x4 suspension systems in an easy-to-understand manner. He gets specific on types of suspensions available from all the major manufacturers including Jeep, Toyota, Ford, Chevy, and Dodge. He goes into a great level of detail on every different model, including early and modern model systems.

**46re transmission sensor diagram: BMW 3-Series (E36) 1992-1999: How to Build and Modify** Jeffrey Zurschmeide, Eddie Nakato, 2016-04-04 The BMW 3 Series set the benchmark for performance and luxury. Yet even at this high standard, these cars can be dramatically improved. Each major component group of the car can be modified or upgraded for more performance, so you can build a better car that's balanced and refined.

**46re transmission sensor diagram: The Pied Piper of Tucson** Don Moser, Jerry Cohen, 1967 It was Life and Time magazines that turned a local story from Tucson, Arizona, into a national abomination. Reporters came from all over, to be sure, but on March 4, 1966, Life printed an ominous photo of the desert landscape where three girls had disappeared and the story of Charles Howard Schmid, Jr., or Smitty, became international news. He had been arrested four months earlier on November 11, just after marrying a fifteen-year-old girl whom he'd met on a blind date. The article was published even before the juries in two separate trials had decided his fate. Dubbed The Pied Piper of Tucson, for his ability to get girls to fall for him, he stood five feet, four inches tall, but added three more inches by padding his stack-heeled cowboy boots with rags and tin cans. He also dyed his reddish-brown hair black, used pancake make-up, whitened his lips, and applied a fake mole to his left cheek-a beauty mark. Arrogant and narcissistic, he came from a wealthy family, so he used the niceties he could buy to impress young high school girls. He adopted the droopy-eyed look associated with Elvis, his idol, and acquired a rock musician's mystique. His tiny house on his parents' property was the scene of many parties. Tucson society was not merely shaken by the murders of three of their young women but by what the details of those murders revealed about its adolescent population-sex clubs, drinking parties, blackmail, cover-ups for murder, and even connections with the crime underworld. Parents suddenly became more strict, more aware now that their kids weren't safe and maybe weren't even behaving properly. When kids looked to someone like Charles Schmid for answers, there was something terribly wrong.

**46re transmission sensor diagram: Monohydra** Hengki Koentjoro, 2016-04

## Additional Resources

### Automatic Transmissions Chrysler 42RE, 44RE, 46RE & 47RE ...

Transmission fluid temperature sensor is integral with governor pressure sensor, located on valve body. Transmission fluid temperature sensor monitors transmission fluid temperature and is in ...

[Getting to Know the 42-48RE Series Transmissions part 1](#)

1. Output Speed Sensor (OSS) (figure 2) — provides the computer with a signal that it uses to determine road speed. If the computer doesn't receive an OSS signal, the computer won't ...

## **21 - 254 AUTOMATIC TRANSMISSION - 46RE DR - DodgeTalk ...**

Speed sensor signals are triggered by the park gear lugs as they rotate past the sensor pickup face. Input signals from the sensor are sent to the transmission control module for processing. ...

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pressure sensor (transducer), as a running change, which also required another internal wiring harness for all Chrysler 42RE, 44RE, 46RE and 47RE transmissions. This is now the 4th design

## **CHRSLER 46RE, 46RH, 47RE, 47RH ZIP IT**

installation Diagram In addition to general rebuilding tips and technical information, the technical booklet included in this kit contains vacuum testing and additional repair options for higher ...

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You MUST have a scanner and scan the vehicle for any codes. All codes MUST be fixed BEFORE installing the new transmission. 1. The cooling system on this vehicle SOULD be ...

### 42RE or 46RE w/PCM - .NET Framework

The following wiring schematic illustrates how the trans sensor, O<sup>2</sup> sensors and many other engine sensors share the same PCm ground circuit. Make sure Oxygen sensor codes are not present ...

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Transmission malfunctions may be caused by poor engine performance, improper adjustments or failure of hydraulic, mechanical or electronic components. Check for stored DTCs before ...

### 46RE Automatic Transmission DISASSEMBLY - JustAnswer

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## **Dodge Pressure Transducer Upgrade Kit - Thoroughbred Diesel**

One of the leading causes of transmission faults with the 47RE and 48RE Dodge transmissions is failed governor pressure transducers. The BD pressure transducer adapter addresses this ...

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Chrysler 46RE, 46RH, 47RE, 47RH ZIP KIT® Quick Guide Step Replace Line Pressure Plug & Sleeve Place O-ring into sleeve groove. Lubricate with Sonnax Slippery Stick O-LUBE and roll ...

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Overview of the 46RE: Provides an introduction to the transmission's design, components, and operation. Troubleshooting Guides: Helps diagnose specific issues through systematic ...

## **1st Printing INTRODUCTION April, 2011 46RE, 47RE, 48RE,**

A push-in Transmission Range Sensor was implemented in model year 2002 to replace the screw-in Park/Neutral switch. The 46RE, 47RE and 48RE transmissions are all four speed ...

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During high current demands, the generator may emit electrical noise that can affect the transmission governor pressure sensor output. If this occurs, the transmission may not shift ...

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Transmission fluid temperature sensor delivers an input signal to the PCM to indicate transmission fluid temperature. The PCM uses this input signal for controlling the TCC, ...

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Dodge and Jeep vehicles with an RE type transmission and a complaint of TCC cycling in and out between 40-50 mph may be caused by Electro Magnetic Interference (EMI). Use your scan ...

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The 45RFE automatic transmission is electronically controlled and includes a lock-up torque converter and dual stage oil pump. With the addition of a 3rd planetary gear set, one reverse ...

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The 45RFE automatic transmission is electronically controlled and includes a lock-up torque converter and dual stage oil pump. With the addition of a 3rd planetary gear set, one reverse ...

Chrysler 42-44-46-47RH/RE, 48RE

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