

4l60e wiring harness diagram

Decoding the 4L60E Wiring Harness Diagram: A Comprehensive Guide

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Introduction:

Understanding the intricacies of a 4L60E wiring harness diagram is crucial for anyone working on repairs, modifications, or troubleshooting issues related to this popular General Motors automatic transmission. This guide delves into the complexities of the 4L60E wiring harness diagram, providing various approaches and methodologies to decipher its information. We'll cover locating the diagram, interpreting its symbols, identifying key components, and utilizing the diagram for effective troubleshooting.

1. Locating the 4L60E Wiring Harness Diagram:

The first step in any 4L60E wiring harness analysis is locating a reliable diagram. Several resources exist:

Factory Service Manuals: GM factory service manuals offer the most accurate and detailed 4l60e wiring harness diagrams. These manuals provide pinouts, circuit descriptions, and troubleshooting procedures. They are often available online through subscription services or from automotive parts retailers.

Online Resources: Numerous websites, forums, and online communities dedicated to automotive repair offer 4L60E wiring harness diagrams. However, always verify the source's credibility, as inaccurate diagrams can lead to misdiagnosis and further damage.

Third-Party Repair Manuals: Reputable automotive repair manual publishers (like Haynes or Chilton) often include 4L60e wiring harness diagrams in their manuals. These manuals are generally less detailed than factory manuals but offer a more affordable alternative.

Software Applications: Dedicated automotive diagnostic software can provide comprehensive wiring diagrams, including those for the 4L60E. These applications often integrate with scan tools for real-time data analysis.

1. Understanding the Symbols and Components in the 4L60E Wiring Harness Diagram:

A 4L60E wiring harness diagram utilizes standardized symbols to represent different components and connections. Understanding these symbols is essential for interpretation. Common symbols include:

Connectors: Represented by rectangular boxes with numbered pins indicating the wire connections.

Sensors: Depicted by various symbols depending on the sensor type (e.g., temperature sensor, speed sensor).

Solenoids: Usually represented by a rectangular box with internal coils indicating the electromagnetic function.

Wires: Shown as lines with different colors and thicknesses representing different circuits and gauge sizes.

Grounds: Often indicated by a ground symbol (typically a triangle).

Power Sources: Represented by battery symbols (+ and - terminals).

PCM (Powertrain Control Module): The central computer that controls the transmission's operation, shown as a block diagram.

1. Interpreting the 4L60E Wiring Harness Diagram for Troubleshooting:

The diagram's value lies in its ability to aid troubleshooting. By tracing circuits and identifying potential points of failure, technicians can isolate problems efficiently. When troubleshooting with a 4L60e wiring harness diagram:

Start with the Symptom: Begin by identifying the specific problem (e.g., rough shifting, no reverse, etc.).

Locate Relevant Circuits: Use the diagram to find the circuits related to the symptom. This might involve tracing wires from the PCM to specific solenoids or sensors.

Check for Continuity and Voltage: Use a multimeter to check for continuity in the wires and voltage at various points in the circuit. This helps pinpoint breaks, shorts, or voltage drops.

Inspect Connectors: Carefully examine all connectors for loose pins, corrosion, or damage.

Verify Sensor Readings: If sensors are involved (speed sensor, temperature sensor, etc.), check their readings using a scan tool to ensure they are within the specified range.

Test Solenoids: Verify the operation of solenoids by checking for appropriate voltage and resistance.

1. Common 4L60E Wiring Harness Issues and Their Diagnosis Using the Diagram:

The 4l60e wiring harness diagram is invaluable when diagnosing common problems like:

Shifting Problems: A 4l60e wiring harness diagram will help trace the circuits related to the shift solenoids and the PCM to diagnose issues with the shift mechanism.

No Reverse: This issue often stems from a faulty reverse solenoid circuit, which can be easily traced using the diagram.

Intermittent Problems: Intermittent problems might indicate loose connections, corroded pins, or damaged wiring, all easily identified using a diagram and multimeter.

Communication Errors: The diagram helps trace the communication lines between the PCM and the transmission, allowing for the identification of communication failures.

1. Repairing the 4L60E Wiring Harness:

Repairing a damaged 4l60e wiring harness requires careful attention to detail. Referencing the 4l60e wiring harness diagram is crucial for proper wire identification and connection. Repair methods include:

Splicing Wires: For minor damage, splicing wires with appropriate connectors and heat shrink tubing is often sufficient.

Replacing Damaged Sections: Severely damaged sections may require replacement with new wiring harnesses or sections of the harness.

Using Wiring Harness Repair Kits: Specialized kits provide connectors and components for repairing damaged sections.

Conclusion:

Mastering the 4L60E wiring harness diagram is an essential skill for anyone involved in the repair and maintenance of GM vehicles equipped with this transmission. By understanding its symbols, utilizing its information for troubleshooting, and employing proper repair techniques, mechanics can efficiently diagnose and resolve a wide range of transmission issues. Careful study and practice are key to developing the expertise needed to effectively utilize this vital tool.

FAQs:

1. Where can I find a free 4L60E wiring harness diagram? While free diagrams exist online, their accuracy is not guaranteed. Factory service manuals or reputable repair manuals are recommended for reliable information.

1. What tools do I need to troubleshoot a 4L60E wiring harness? A multimeter, wire harness repair kit, and potentially a scan tool are essential for effective troubleshooting.
1. How do I identify the correct 4L60E wiring harness diagram for my vehicle? The year, make, model, and engine of your vehicle are crucial for selecting the correct diagram.
1. Can I repair a 4L60E wiring harness myself? While possible, repairing a wiring harness requires technical expertise and careful attention to detail. If unsure, consulting a professional is recommended.
1. What are the common causes of 4L60E wiring harness problems? Age, wear and tear, exposure to the elements, and improper installation are common causes.
1. How much does it cost to replace a 4L60E wiring harness? The cost varies depending on the vehicle and the extent of the damage. Professional installation adds to the cost.
1. Are there different versions of the 4L60E wiring harness? Yes, variations exist depending on the year and model of the vehicle. Always use the correct diagram for your specific application.
1. How can I prevent future 4L60E wiring harness problems? Regular inspections, proper maintenance, and avoiding harsh environments can help prevent damage.
1. What are the consequences of using an incorrect 4L60E wiring harness diagram? Using an incorrect diagram can lead to misdiagnosis, improper repairs, and potential damage to the transmission or vehicle.

Related Articles:

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1. 4L60E Overhaul and Rebuild Procedures: A detailed guide to overhauling and rebuilding a 4L60E transmission.
1. Choosing the Right 4L60E Performance Upgrades: This article covers the different performance upgrades available for the 4L60E and how they impact the transmission's operation.

4160e wiring harness diagram: Muncie 4-Speed Transmissions Paul Cangialosi, 2014-10-15

The Muncie 4-speeds, M20, M21, and M22 are some of the most popular manual transmissions ever made and continue to be incredibly popular. The Muncie was the top high-performance manual transmission GM offered in its muscle cars of the 60s and early 70s. It was installed in the Camaro, Chevelle, Buick GS, Pontiac GTO, Olds Cutlass, and many other classic cars. Many owners want to retain the original transmission in their classic cars to maintain its value. Transmission expert and veteran author Paul Cangialosi has created an indispensable reference to Muncie 4-speeds that guides you through each crucial stage of the rebuild process. Comprehensive ID information is provided, so you can positively identify the cases, shafts, and related parts. It discusses available models, parts options, and gearbox cases. Most important, it shows how to completely disassemble the gearbox, identify wear and damage, select the best parts, and complete the rebuild. It also explains how to choose the ideal gear ratio for a particular application. Various high-performance and racing setups are also shown, including essential modifications, gun drilling the shafts, cutting down the gears to remove weight, and achieving race-specific clearances. Muncie 4-speeds need rebuilding after many miles of service and extreme use. In addition, when a muscle car owner builds a high-performance engine that far exceeds stock horsepower, a stronger high-performance transmission must be built to accommodate this torque and horsepower increase. No other book goes into this much detail on the identification of the Muncie 4-speed, available parts, selection of gear ratios, and the rebuild process.

4160e wiring harness diagram: Automotive Automatic Transmission and Transaxles

Keith Santini, Kirk VanGelder, 2017-05-04 Automotive Automatic Transmission and Transaxles, published as part of the CDX Master Automotive Technician Series, provides students with an in-depth introduction to diagnosing, repairing, and rebuilding transmissions of all types. Utilizing a "strategy-based diagnostics" approach, this book helps students master technical trouble-shooting in order to address the problem correctly on the first attempt.

4160e wiring harness diagram: LS Swaps Jefferson Bryant, 2014-04-10 Introduced in 1997, the GM LS engine has become the dominant V-8 engine in GM vehicles and a top-selling high-performance crate engine. GM has released a wide range of Gen III and IV LS engines that deliver spectacular efficiency and performance. These compact, lightweight, cutting-edge pushrod V-8 engines have become affordable and readily obtainable from a variety of sources. In the process, the LS engine has become the most popular V-8 engine to swap into many American and foreign muscle cars, sports cars, trucks, and passenger cars. To select the best engine for an LS engine swap, you need to carefully consider the application. Veteran author and LS engine swap master Jefferson Bryant reveals all the criteria to consider when choosing an LS engine for a swap project. You are guided through selecting or fabricating motor mounts for the project. Positioning the LS engine in the engine compartment and packaging its equipment is a crucial part of the swap process, which is comprehensively covered. As part of the installation, you need to choose a transmission crossmember that fits the engine and vehicle as well as selecting an oil pan that has the correct profile for the crossmember with adequate ground clearance. Often the brake booster, steering shaft, accessory pulleys, and the exhaust system present clearance challenges, so this book offers you the best options and solutions. In addition, adapting the computer-control system to the wiring harness and vehicle is a crucial aspect for completing the installation, which is thoroughly detailed. As an all-new edition of the original top-selling title, LS Swaps: How to Swap GM LS Engines into Almost Anything covers the right way to do a spectrum of swaps. So, pick up this guide, select your ride, and get started on your next exciting project.

4160e wiring harness diagram: GM Automatic Overdrive Transmission Builder's and Swapper's Guide Cliff Ruggles, 2008 Vehicle maintenance.

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4160e wiring harness diagram: *GM Turbo 350 Transmissions* Cliff Ruggles, 2015-07-15

Although not quite the stout heavy-duty performer as its big brother, the Turbo 400, the Turbo 350 transmission is a fine, durable, capable, and when modified, stout performer in its own right. Millions of GM cars and trucks have been built with Turbo 350 automatic transmissions. There always comes a time when the old transmission shows signs of wear. At some point, even the best transmissions need to be rebuilt. In *GM Turbo 350 Transmissions: How to Rebuild & Modify*, respected automotive technical author Cliff Ruggles guides you through the complex rebuild procedure of GM's popular rear-wheel-drive automatic transmission. With his proven style, Ruggles goes through the step-by-step rebuild and performance upgrade procedures in a series of full-color photos. He includes instruction on removal and installation, tear-down procedures, parts inspection and replacement, as well as performance mods and shift kit installation. Time-saving tips are part of every buildup as well. Automatic transmissions are a mystery to most. Even if you end up deciding to have a professional take care of your transmission repair and performance needs, the information contained in this book is crucial to understanding how the power gets from the engine to the road. Add a copy of *GM Turbo 350: How to Rebuild & Modify* to your automotive library today.

4160e wiring harness diagram: *Ford AOD Transmissions* George Reid, 2014-06-16 While millions of Ford rear-wheel-drive cars are equipped with the durable and simple C4 and C6 transmissions of the 1960s, early in the 1980s Ford replaced those old designs with the AOD transmission for a new generation of cars. Overdrive gears, once popular before WWII, were now becoming popular again, as manufacturers were under increasing pressure to raise fuel economy to meet ever more demanding EPA standards. A nice byproduct of that was more comfortable cruising speeds, where your engine didn't have to work so hard in addition to getting better fuel economy. In *Ford AOD Transmissions: Rebuilding and Modifying the AOD, AODE and 4R70W*, author George Reid walks you through the process step-by-step, from removing the transmission from the vehicle, to complete disassembly and cleaning, to careful reassembly, to proper re-installation and road testing. Performance modifications are also covered, as well as an ID guide for various model numbers, evolutionary design changes, shift kit installation, and torque converter selection. This book is ideal for people who already have one of these transmissions in their car, as well as enthusiasts who would like to swap one of these more modern units into an older chassis to get all the benefits of overdrive. If you plan on researching or working on any one of these overdrive models, this book is a vital addition to your workbench or library.

4160e wiring harness diagram: *Swap LS Engines into Camaros & Firebirds: 1967-1981* Eric McClellan, 2014-01-15 Provides excellent instruction and guidance for selecting the best engine for a budget, choosing the adapter plates and engine mounts, dropping the engine in the car, selecting the ideal transmission and drivelines, and completing all facets of the swap.

4160e wiring harness diagram: *Automotive Transmissions* Yong Chen, 2020-07-30 This book introduces readers to the theory, design and applications of automotive transmissions. It covers multiple categories, e.g. AT, AMT, CVT, DCT and transmissions for electric vehicles, each of which has its own configuration and characteristics. In turn, the book addresses the effective design of transmission gear ratios, structures and control strategies, and other topics that will be of particular interest to graduate students, researchers and engineers. Moreover, it includes real-world solutions, simulation methods and testing procedures. Based on the author's extensive first-hand experience in the field, the book allows readers to gain a deeper understanding of vehicle transmissions.

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high-power engines in any automobile. First underhood in the 1997 Corvette, GM's LS engines have proven powerful, reliable, and amazingly fuel efficient. Since that time, more than a dozen variants have been produced, ranging from bulletproof, iron-block 4.8-liter workhorses to the supercharged 7.0-liter LS7. Among performance enthusiasts, these remarkable V-8 engines have become a favorite for engine swaps, owing to their fantastic power, compact design, and modification possibilities. In *GM LS-Series Engines: The Complete Swap Manual*, professional LS-series engine specialist and technician Joseph Potak details all the considerations involved in performing this swap into any vehicle. With clear instructions, color photos, diagrams, and specification tables, Potak guides you through: Mounting your new engine Configuring the EFI system Designing fuel and exhaust systems Sourcing the correct accessories for your application Transmission, torque converters, and clutches Performance upgrades and power-adders Troubleshooting, should problems arise

4160e wiring harness diagram: *Automotive Electrical Handbook* Inkwell Co. Inc., 1987-01-01 When it's time to wire your car, whether it's a restoration project, race car, kit car, trailer, or street rod, don't be intimidated; wire it yourself. Jim Horner shares his years of experience and cuts through the technical jargon to show you how. Learn about basic electrical theory, how various electrical components work and drawing circuit diagrams. Includes tips on using electrical test equipment and troubleshooting electrical circuits. Choose the right components, build your own wiring harness, and install them by following the step-by-step instructions. Profusely illustrated with over 350 photos, drawings, and diagrams. Suppliers list included.

4160e wiring harness diagram: *Pontiac GTO Restoration Guide 1964-1972* Paul Zazarine, Authenticity getting your goat? This updated second edition now includes additional GTO models from 1971 and 1972! Determine the proper part numbers with this detailed, accurate, year-by-year guide showing you the right way to do a full-scale restoration. Over 1,000 photos, part numbers, codes and color charts from original factory literature point out what goes where, what parts are good or bad, and the best way to put them together. 2nd ed.

4160e wiring harness diagram: *How to Rebuild Ford Power Stroke Diesel Engines 1994-2007* Bob McDonald, 2012 This book covers the vast majority of Powerstroke Diesel engines on the road, and gives you the full story on their design. Each part of the engine is described and discussed in detail, with full-color photos of every critical component. A full and complete step-by-step engine rebuild is also included.

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4160e wiring harness diagram: *The Birth of Chrysler Corporation and Its Engineering Legacy* Carl Breer, Anthony J Yanik, 1995-02-01 Through words and pictures from Breer's own photography collection, *The Birth of Chrysler Corporation and Its Engineering Legacy* offers a nostalgic look at the industry's early days and provides us with insight into the men that were instrumental to Chrysler Corporation's engineering success. After reading this account of the stellar careers of Zeder, Skelton, and Breer, and the many engineering accomplishments for which they were

responsible, automotive engineers will appreciate the great legacy given to them by these men. A book of interest to all automotive historians, design engineers, car enthusiasts, and anyone wishing to learn more about the automobile industry in its early years. Chapters cover: Carl Breer: The Early Years With Zeder and Skelton at Studebaker, 1916-1918 We Create Chrysler Corporation Reminiscences of Early Product Developments at Chrysler Corporation Birth of the Airflow Car Railroad Ride Research Along Airflow Principles The Chrysler Engineering Team and the War Effort Death of Walter Chrysler and a New Regime. Reviews

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4160e wiring harness diagram: **How to Use and Upgrade to GM Gen III LS-Series Powertrain Control Systems** Mike Noonan, 2013 The General Motors G-Body is one of the manufacturer's most popular chassis, and includes cars such as Chevrolet Malibu, Monte Carlo, and El Camino; the Buick Regal, Grand National, and GNX; the Oldsmobile Cutlass Supreme; the Pontiac Grand Prix, and more. This traditional and affordable front engine/rear-wheel-drive design lends itself to common upgrades and modifications for a wide range of high-performance applications, from drag racing to road racing. Many of the vehicles GM produced using this chassis were powered by V-8 engines, and others had popular turbocharged V-6 configurations. Some of the special-edition vehicles were outfitted with exclusive performance upgrades, which can be easily adapted to other G-Body vehicles. Knowing which vehicles were equipped with which options, and how to best incorporate all the best-possible equipment is thoroughly covered in this book. A solid collection of upgrades including brakes, suspension, and the installation of GMs most popular modern engine—the LS-Series V-8—are all covered in great detail. The aftermarket support for this chassis is huge, and the interchangeability and affordability are a big reason for its popularity. It's the last mass-produced V-8/rear-drive chassis that enthusiasts can afford and readily modify. There is also great information for use when shopping for a G-Body, including what areas to be aware of or check for possible corrosion, what options to look for and what should be avoided. No other book on the performance aspects of a GM G-Body has been published until now, and this book will serve as the bible to G-Body enthusiasts for years to come.

4160e wiring harness diagram: *Spell of Intrigue* Mayer Alan Brenner, 2011-11-09 Fantasy takes a “zany and very, very clever” turn in the second Dance of Gods adventure from the author of *Spell of Catastrophe* (Kliatt). The port town of Oolsmouth used to be a quiet, peaceful trading city. But with Maximillian the Vaguely Disreputable, Shaa, the Great Karlini, and the Creeping Sword all about to converge there, it seems unlikely to stay that way. The usual power struggles—gods vs. mortals vs. gods-know-who in the everlasting Dance of Gods—are brewing in Oolsmouth, and tension is building. But the ship carrying Shaa and the Great Karlini into town has been hijacked, the Creeping Sword has already missed the boat (literally), and Max has taken a detour to try to discover the secrets of a hopefully long-dead sorcerer. These delays have got everyone wondering: will they make it to Oolsmouth in time for the showdown? More importantly: do they want to? “A lot of confusion, mayhem, action and adventure—but better yet, a sense of the humorous that doesn’t rely on puns.” —Bakka Bookie Sheet “Brenner writes in a quick-paced style which perfectly matches his plot twists . . . A book rich in people, places and complications and one which is enjoyable either by itself or in tandem with the first in the series.” —Quantam

4160e wiring harness diagram: **Vehicular Engine Design** Kevin Hoag, 2007-02-05 The

mechanical engineering curriculum in most universities includes at least one elective course on the subject of reciprocating piston engines. The majority of these courses today emphasize the application of thermodynamics to engine efficiency, performance, combustion, and emissions. There are several very good textbooks that support education in these aspects of engine development. However, in most companies engaged in engine development there are far more engineers working in the areas of design and mechanical development. University studies should include opportunities that prepare engineers desiring to work in these aspects of engine development as well. My colleagues and I have undertaken the development of a series of graduate courses in engine design and mechanical development. In doing so it becomes quickly apparent that no suitable textbook exists in support of such courses. This book was written in the hopes of beginning to address the need for an engineering-based introductory text in engine design and mechanical development. It is of necessity an overview. Its focus is limited to reciprocating-piston internal-combustion engines – both diesel and spark-ignition engines. Emphasis is specifically on automobile engines, although much of the discussion applies to larger and smaller engines as well. A further intent of this book is to provide a concise reference volume on engine design and mechanical development processes for engineers serving the engine industry. It is intended to provide basic information and most of the chapters include recent references to guide more in-depth study.

4160e wiring harness diagram: *Collector's Originality Guide Pontiac GTO 1964-1974*, 2008-12-25 *Collector's Originality Guide: Pontiac GTO 1964-1974* provides a bumper-to-bumper look at every component that makes the GTO a classic, from the distinctive taillights of the 1964 GTO to the Radial Tuned Suspension of the 1974 model. Year by year, component by component, you'll discover a comprehensive and useful guide on factory specifications for restoring, re-energizing, and simply admiring the pride of Pontiac.

4160e wiring harness diagram: *Handbook of Microwave and Radar Engineering* Anatoly Belous, 2022-01-06 This comprehensive handbook provides readers with a single-source reference to the theoretical fundamentals, physical mechanisms and principles of operation of all known microwave devices and various radars. The author discusses proven methods of computation and design development, process, schematic, schematic-technical and construction peculiarities of each breed of the microwave devices, as well as the most popular and original technical solutions for radars. Coverage also includes the history of creation of the most widely used radars, as well as guidelines for their potential upgrading. Offers readers a comprehensive, systematized view of all contemporary knowledge, acquired during the last 20 years, on radars and related disciplines; Provides a single-source reference on the physical mechanisms and principles of operation of the basic components of radio location devices, including theoretical aspects of designing the necessary, high-efficiency electronic devices and systems, as well as key, practical methods of computation and design; Presents complex topics using simple language, minimizing mathematics.

4160e wiring harness diagram: *Level 1: the Galapagos Book for Pack* Izabella Hearn, 2010-03-11 The Galapagos Islands are beautiful. They are full of interesting animals and birds. One famous visitor to the islands, in 1835, was the scientist Charles Darwin. Now the two young Americans, Sophie and David, are making a movie there. What do they find?

4160e wiring harness diagram: *How to Rebuild and Modify Rochester Quadrajet Carburetors* Cliff Ruggles, 2006 The Rochester Quadrajet carburetor was found perched atop the engine of many a classic GM performance vehicle. The Q-Jet is a very capable but often misunderstood carb. This book, *How to Rebuild and Modify Rochester Quadrajet Carburetors*, seeks to lift the veil of mystery surrounding the Q-Jet and show owners how to tune and modify their carbs for maximum performance. The book will be a complete guide to selecting, rebuilding, and modifying the Q-Jet, aimed at both muscle car restorers and racers. The book includes a history of the Q-Jet, an explanation of how the carb works, a guide to selecting and finding the right carb, instructions on how to rebuild the carb, and extensive descriptions of high-performance modifications that will help anyone with a Q-Jet carb crush the competition.

4160e wiring harness diagram: *Maximum Boost* Corky Bell, 1997-08-10 Whether you're

interested in better performance on the road or extra horsepower to be a winner on the track, this book gives you the knowledge you need to get the most out of your engine and its turbocharger system. Find out what works and what doesn't, which turbo is right for your needs, and what type of set-up will give you that extra boost. Bell shows you how to select and install the right turbo, how to prep your engine, test the systems, and integrate a turbo with EFI or carbureted engine.

4160e wiring harness diagram: Chevrolet Inline Six-Cylinder Power Manual, 2nd Edition Leo Santucci, 2011-04-15 Crammed full of all the things that made the original Chevrolet Inline Six-Cylinder Power Manual the bible for new and experienced six-cylinder engine builders, this updated version is a must-have for any serious inliner. From soup to nuts, when you want to build the Chevy six for more power and torque than the factory could ever imagine, there is only one book the experts turn to. And now the second edition is absolutely jam packed with the latest blueprints, interviews, airflow charts, build sheets, racer and hot dog profiles. Thought-provoking ideas will help you build the Chevy six your way!

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Additional Resources

GM 4L60-E transmission - Wikipedia

The 4L60E (and similar 4L65E) is a series of automatic transmissions from General Motors. Designed for longitudinal engine configurations, the series includes 4 forward gears and 1 ...

JEGS 4L60E Transmission for 2001 & Up GM LS Engines 4WD Truck

The Performance Automatic Transmission is a GM 4L60E designed for 1999-2007 GM 4WD trucks with LS-series engines. It is dyno tested and features a 13-pin wiring harness connector.

4L60E Transmission Specifications and Cross Reference

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4L60E Transmission Specs, Gear Ratios, & History

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