

allison transmission parts diagram

allison transmission parts diagram is an essential resource for anyone involved in the maintenance, repair, or understanding of Allison transmissions. Whether you're a seasoned mechanic, a fleet manager, or a curious owner, having access to a clear and detailed parts diagram can significantly streamline diagnostic processes, ensure correct part identification, and facilitate efficient repairs. This comprehensive guide will delve into the intricate world of Allison transmission components, exploring the purpose and location of key parts, offering insights into common wear points, and highlighting the importance of using accurate diagrams for optimal performance and longevity of your Allison drivetrain. We will cover the fundamental sections of an Allison transmission, from the torque converter to the gear sets and control systems, providing a visual and informational roadmap for navigating these complex units.

Understanding the Importance of an Allison Transmission Parts Diagram

An Allison transmission parts diagram is more than just a collection of images; it's a crucial blueprint for understanding the inner workings of one of the most robust and widely used automatic transmissions in the commercial and heavy-duty vehicle industries. For professionals, it serves as an indispensable tool for identifying the exact components needed for replacement, preventing costly errors that can arise from misidentification. For owners, it can demystify the complexities of their vehicle's powertrain, empowering them to have more informed conversations with their mechanics and better understand maintenance recommendations. Without a reliable diagram, troubleshooting issues can become a frustrating and time-consuming ordeal, potentially leading to incorrect repairs and further damage.

The value of a well-structured Allison transmission parts diagram lies in its ability to visually represent the spatial relationships and interconnectivity of hundreds, if not thousands, of individual parts. This visual aid is critical when dealing with the advanced engineering of Allison transmissions, which often incorporate sophisticated electronic controls and intricate hydraulic systems. By providing a clear overview, these diagrams enable users to pinpoint the location of specific components, understand how they interact with their neighbors, and identify potential failure points based on their function and proximity to other parts. This clarity is paramount in minimizing downtime and ensuring that vehicles equipped with Allison transmissions remain operational and efficient.

Key Sections of an Allison Transmission and Their Components

Navigating an Allison transmission parts diagram effectively requires a foundational understanding of its major sections and the primary functions of the components within each. These transmissions are complex assemblies, and breaking them down into logical areas simplifies the learning process and aids in targeted troubleshooting.

The Torque Converter Assembly

The torque converter is the heart of the Allison automatic transmission, acting as a fluid coupling that transmits power from the engine to the transmission. It allows the engine to continue running when the vehicle is stopped without stalling, and it multiplies torque during acceleration. A typical Allison torque converter parts diagram will show components like the impeller, turbine, stator, and transmission fluid fill/drain plugs. Understanding the internal workings, such as the role of the stator in redirecting fluid flow to increase torque multiplication, is key to diagnosing issues related to poor acceleration or shuddering.

The Planetary Gear Sets

Allison transmissions utilize planetary gear sets to achieve different gear ratios, allowing the vehicle to move at various speeds and under different load conditions. A detailed Allison transmission parts diagram will meticulously illustrate the arrangement of sun gears, planet gears, and ring gears within each planetary unit. The interaction of these gears, driven by hydraulic pressure through clutch packs, is what enables smooth gear changes and efficient power delivery. Identifying specific gears, carriers, and associated seals within this section of the diagram is crucial for diagnosing problems like slipping gears or grinding noises.

The Hydraulic System and Valve Body

The hydraulic system is the "brain" and "nervous system" of an Allison automatic transmission. It uses transmission fluid under pressure to engage clutches and bands, shift gears, and activate the torque converter lock-up clutch. The valve body, a complex manifold of passages and valves, directs this fluid flow. An Allison transmission parts diagram will often show the valve body with its numerous solenoids, pressure regulators, and manual shift valves. Understanding how the electronic control module (ECM) signals these solenoids to control fluid movement is vital for diagnosing shifting issues, harsh shifts, or transmission warning lights.

The Clutch Packs and Bands

Clutch packs and bands are the actuators that engage and disengage different gear sets, facilitating the actual gear changes. Clutch packs consist of alternating friction and steel plates that are pressed together by hydraulic pressure. Bands are friction material wrapped around rotating components. A parts diagram will clearly depict the arrangement of these friction materials, steel plates, return springs, and seals within the transmission housing. Problems with slipping or delayed engagement are often directly related to worn clutch packs or improperly functioning bands, and a diagram helps pinpoint their location for inspection and replacement.

The Transmission Control Module (TCM) and Sensors

Modern Allison transmissions are managed by a sophisticated Transmission Control Module (TCM), which receives data from various sensors throughout the powertrain. These sensors monitor factors like vehicle speed, engine load, throttle position, and transmission fluid temperature. The TCM then interprets this data and sends electrical signals to the solenoids in the valve body to command gear

shifts. An Allison transmission parts diagram may illustrate the location of the TCM, key sensors (like speed sensors and temperature sensors), and their associated wiring harnesses. Diagnosing electronic issues often requires understanding the interplay between these components as shown in the diagram.

Common Wear Points and Troubleshooting with a Parts Diagram

While Allison transmissions are renowned for their durability, certain components are more prone to wear over time due to constant operation and exposure to heat and pressure. Having a detailed parts diagram at hand can greatly assist in identifying potential culprits when troubleshooting common issues.

Fluid and Filter Issues

One of the most frequent causes of transmission problems is contaminated or low transmission fluid, or a clogged filter. The torque converter and valve body are particularly sensitive to fluid quality. A parts diagram will show the location of the transmission fluid fill plug, drain plug, and transmission filter. Regular inspection and replacement of the filter, as well as ensuring the correct fluid level and type, are preventative measures that can be easily visualized with a diagram. When diagnosing slipping or erratic shifting, checking the fluid for debris or discoloration is a primary step, and the diagram shows where to access these components.

Seal and Gasket Failures

Internal seals and gaskets are critical for maintaining hydraulic pressure within the transmission. Their failure can lead to leaks, internal pressure loss, and ultimately, improper shifting or a complete loss of function. An Allison transmission parts diagram will meticulously illustrate the location of numerous seals, O-rings, and gaskets throughout the entire unit, from the torque converter seal to the seals within the clutch packs and pump. Identifying the specific seal that has failed often requires disassembling portions of the transmission, and a diagram serves as a vital guide to ensure all seals are accounted for and replaced correctly.

Solenoid and Sensor Malfunctions

As mentioned earlier, the solenoids in the valve body and the various sensors play a crucial role in transmission operation. A malfunctioning solenoid might prevent a specific gear from engaging, or a faulty speed sensor could cause the TCM to misinterpret vehicle speed, leading to incorrect shifting. A parts diagram helps technicians locate these electrical components. They can then test individual solenoids for proper electrical resistance and actuation, and verify sensor readings against expected values, all guided by the visual representation of their placement within the transmission assembly.

Tips for Using an Allison Transmission Parts Diagram Effectively

Maximizing the utility of an Allison transmission parts diagram involves a methodical approach. Simply having the diagram is only the first step; understanding how to interpret it and apply the information is key to successful maintenance and repair.

Accurate Identification of Part Numbers

One of the primary functions of an Allison transmission parts diagram is to provide precise part numbers. Every component, from the smallest washer to the largest gear, will have a unique identifier. Using these part numbers ensures that the correct replacement part is ordered, preventing compatibility issues and costly delays. A good diagram will often include a corresponding parts list that clearly links each visual representation to its specific part number, often accompanied by a description.

Understanding Assembly and Disassembly Order

For technicians undertaking repairs, an Allison transmission parts diagram offers invaluable insight into the correct order of disassembly and reassembly. By visualizing how components fit together, mechanics can avoid damaging delicate parts or incorrectly reassembling the transmission. This is particularly important for complex internal components like the planetary gear sets and valve body. The layered representation in many diagrams helps illustrate which parts need to be removed before others can be accessed.

Visualizing Potential Failure Points

Experienced mechanics often use parts diagrams to anticipate common failure points. For example, knowing the operational stress on a particular gear set or clutch pack, and seeing its location on the diagram, can help a technician prioritize inspection areas when a complaint arises. This proactive approach, informed by the visual data of the diagram, can prevent minor issues from escalating into major, expensive repairs.

- Locate the specific component causing concern on the diagram.
- Cross-reference the visual with the accompanying parts list for the exact part number.
- Consult the diagram to understand the surrounding components and their order of assembly/disassembly.
- Use the diagram to identify any seals, gaskets, or fasteners that should be replaced along with the primary component.
- Verify the proper orientation of parts as depicted in the diagram during reassembly.

Frequently Asked Questions

What are the key components commonly found in an Allison transmission parts diagram for a modern heavy-duty truck?

A typical Allison parts diagram for a heavy-duty truck will often highlight the torque converter, planetary gear sets (sun, planet, and ring gears), clutch packs (forward, reverse, intermediate), valve body and solenoid assembly, pump, filter, cooler, and transmission control module (TCM). The diagram will show how these units are interconnected and their relative positions within the transmission housing.

How can an Allison transmission parts diagram help in diagnosing a shifting issue?

By referencing the parts diagram, a technician can visually trace the hydraulic fluid flow and the engagement of clutch packs. For example, if a specific gear isn't engaging, the diagram can help identify which clutch pack and associated solenoids are responsible, guiding the diagnostic process to potential leaks, worn seals, or malfunctioning electronic controls.

What is the purpose of the 'valve body' section in an Allison transmission parts diagram?

The valve body section in an Allison parts diagram illustrates the intricate network of hydraulic passages, valves, and solenoids that control fluid pressure. This pressure is used to engage and disengage clutch packs, thereby shifting gears. The diagram helps understand how electrical signals from the TCM translate into hydraulic commands within the valve body.

Where can I find an official Allison transmission parts diagram for a specific model?

Official Allison transmission parts diagrams are typically available through authorized Allison dealers, their official service websites, or specialized online parts catalogs that partner with Allison. Providing your transmission model number and serial number is crucial for obtaining the correct and most up-to-date diagram.

What are the benefits of using a detailed parts diagram when ordering replacement parts for an Allison transmission?

Using a detailed parts diagram significantly reduces the risk of ordering incorrect parts. It allows you to visually identify the exact component needed, often providing part numbers and identifying features. This is especially important for complex assemblies like clutch packs or valve body components, ensuring compatibility and preventing costly mistakes.

How does the torque converter assembly typically appear on an Allison transmission parts diagram?

On an Allison parts diagram, the torque converter assembly is usually depicted as a separate unit that bolts to the engine's flywheel and connects to the transmission input shaft. The diagram will show its internal components, such as the impeller, turbine, and stator, and how it transfers power from the engine to the transmission via hydraulic fluid.

Are there differences in parts diagrams for older vs. newer Allison transmission models?

Yes, there are significant differences. Newer Allison transmission models, especially those with electronic controls (like the 'World Transmission' series or Gen 4/5 controllers), will feature more complex diagrams showing integrated electronic sensors, solenoids, and the transmission control module (TCM). Older models might rely more on purely hydraulic and mechanical components, resulting in simpler diagrams focused on mechanical linkages and valve bodies.

Additional Resources

Here are 9 book titles related to Allison transmission parts diagrams, with descriptions:

1. Allison Transmission Parts Atlas: Decoding the Gears

This comprehensive guide delves into the intricate world of Allison transmission components. It provides detailed, annotated diagrams for various Allison models, illustrating the precise location and function of each part. The book serves as an indispensable resource for mechanics, technicians, and enthusiasts seeking to understand the inner workings of these robust transmissions.

2. The Allison Transmission Component Encyclopedia: A Visual Journey

Step-by-step, this visual encyclopedia breaks down the complex assemblies within Allison transmissions. It features high-resolution diagrams, color-coded sections for clarity, and detailed breakdowns of every gear, seal, bearing, and hydraulic circuit. This book is designed to demystify the identification and understanding of individual parts.

3. Mastering Allison Transmission Diagrams: From Assembly to Troubleshooting

This essential manual focuses on the practical application of Allison transmission parts diagrams. It not only presents clear visual representations of components but also explains how these diagrams are crucial for diagnosing common problems and performing accurate repairs. Users will learn to interpret the schematics for efficient maintenance and service.

4. Allison Transmission Parts Revealed: An Illustrated Guide to Rebuilds

Geared towards those undertaking transmission rebuilds, this book offers an in-depth look at the anatomy of an Allison transmission. It features exploded view diagrams that meticulously detail the order of assembly and disassembly, along with notes on specific part identification. This guide ensures a thorough understanding for successful rebuilding processes.

5. Understanding Allison Transmission Schematics: A Practical Handbook

This handbook simplifies the often daunting task of understanding technical transmission diagrams. It focuses on common Allison transmission models and provides clear, uncluttered schematics

alongside explanations of their purpose. This resource is ideal for anyone who needs to quickly identify parts and their relationships within the transmission.

6. Allison Transmission Component Identification: A Visual Dictionary

This visual dictionary serves as a quick reference for identifying every component within an Allison transmission. Featuring an array of diagrams, from overall assemblies to individual part close-ups, it allows users to easily match a physical part to its corresponding diagram and name. It's a perfect companion for inventory or replacement tasks.

7. The Mechanic's Guide to Allison Transmission Diagrams: Field Tested Accuracy

Developed with hands-on mechanics in mind, this guide offers practical, field-tested diagrams of Allison transmission parts. It emphasizes clarity and accuracy, providing essential views needed for on-the-job repairs and maintenance. The book aims to streamline the diagnostic process and reduce guesswork.

8. Allison Transmission Internal Components: A Detailed Diagrammatic Exploration

This book offers a deep dive into the often-hidden internal workings of Allison transmissions. Through detailed diagrams, it illustrates the complex interplay of gears, clutches, bands, and valve bodies. It's designed for those who need an exhaustive understanding of how the transmission's internal mechanisms function and are assembled.

9. Navigating Allison Transmission Parts Catalogs: A Visual Companion

This guide acts as a bridge between physical parts and their corresponding catalog entries. It features simplified diagrams that correlate directly with common Allison parts catalog numbers, making it easier to locate and order the correct components. This book is invaluable for parts managers and service advisors.

[Allison Transmission Parts Diagram](#)

Understanding Allison Transmission Parts Diagrams: A Comprehensive Guide for Mechanics and Enthusiasts

This ebook delves into the intricacies of Allison transmission parts diagrams, explaining their significance in maintenance, repair, and troubleshooting of these heavy-duty automatic transmissions, crucial for various vehicle applications. It will cover the different types of diagrams available, how to interpret them, and their practical application in real-world scenarios.

Ebook Title: Mastering Allison Transmission Parts Diagrams: A Practical Guide

Outline:

Introduction: The importance of Allison transmission parts diagrams and their role in effective vehicle maintenance.

Chapter 1: Types of Allison Transmission Parts Diagrams: Exploring different diagram types

(schematic, exploded view, etc.) and their specific uses.

Chapter 2: Deciphering Allison Transmission Parts Diagrams: Step-by-step guide on interpreting symbols, codes, and identifying components.

Chapter 3: Locating and Utilizing Allison Transmission Parts Diagrams: Sources for obtaining diagrams (online resources, manuals, dealerships) and practical tips for effective use.

Chapter 4: Practical Applications: Troubleshooting and Repair: Real-world examples of using diagrams for diagnosis and repair, highlighting common issues.

Chapter 5: Advanced Techniques and Considerations: Discussion of specialized diagrams, software, and advanced troubleshooting methods.

Chapter 6: Safety Precautions and Best Practices: Essential safety considerations when working with transmissions and interpreting diagrams.

Chapter 7: Keeping Up-to-Date with Allison Transmission Technology: Understanding updates, revisions, and accessing the latest diagram information.

Conclusion: Recap of key takeaways and emphasizing the ongoing importance of mastering Allison transmission parts diagrams.

Detailed Breakdown of Outline Points:

Introduction: This section sets the stage, explaining why understanding Allison transmission parts diagrams is essential for both professional mechanics and vehicle owners. It will highlight the potential cost savings and efficiency gains associated with proper diagnosis and repair.

Chapter 1: Types of Allison Transmission Parts Diagrams: This chapter categorizes the various types of diagrams commonly used, including schematic diagrams (showing the system's operational flow), exploded view diagrams (showing parts in a disassembled state), and cutaway diagrams (offering a cross-sectional view). It will discuss the advantages and limitations of each type.

Chapter 2: Deciphering Allison Transmission Parts Diagrams: This crucial chapter provides a detailed, step-by-step guide on how to interpret the symbols, part numbers, and codes used within the diagrams. It will cover common conventions and explain how to identify specific components accurately. Practical examples and illustrations will enhance understanding.

Chapter 3: Locating and Utilizing Allison Transmission Parts Diagrams: This chapter guides readers on how to find the appropriate diagrams for their specific Allison transmission model. It will cover official Allison sources, online databases (with cautions about verifying accuracy), repair manuals, and dealership resources. Tips for organizing and managing diagrams efficiently will be included.

Chapter 4: Practical Applications: Troubleshooting and Repair: This chapter will feature real-world case studies illustrating how parts diagrams are used to troubleshoot common Allison transmission problems, such as shifting issues, leaks, and unusual noises. Step-by-step procedures will be shown, demonstrating the practical application of diagram interpretation in the repair process.

Chapter 5: Advanced Techniques and Considerations: This chapter delves into more advanced aspects, including the use of specialized diagnostic software, electronic diagrams, and interpreting data from sensors and control units. It will also discuss variations in diagram formats across different Allison transmission models.

Chapter 6: Safety Precautions and Best Practices: This crucial chapter emphasizes the importance of safety when working with heavy-duty transmissions. It will cover proper safety equipment, handling procedures, and best practices to avoid injury and damage during repair or maintenance. Specific

warnings related to working with hydraulic fluids and high voltages will be included.

Chapter 7: Keeping Up-to-Date with Allison Transmission Technology: This chapter highlights the importance of staying current with the latest Allison transmission models and updates. It will discuss how to access updated diagrams and information, including subscriptions to technical bulletins and online resources.

Conclusion: This section summarizes the key learning points, reiterating the importance of mastering Allison transmission parts diagrams for efficient and safe maintenance and repair. It will encourage continued learning and exploration of resources for staying up-to-date.

(SEO Optimized Headings would be used throughout the ebook, mirroring the outline above.)

FAQs:

1. Where can I find Allison transmission parts diagrams online? Several online resources offer diagrams, but always verify their accuracy and source. Consult official Allison documentation whenever possible.
2. What is the difference between a schematic and an exploded view diagram? Schematic diagrams show the operational flow, while exploded views show parts in a disassembled state for assembly and disassembly reference.
3. How do I interpret the part numbers on an Allison transmission diagram? Each part number is unique and can be used to order replacement parts.
4. What if I can't find the diagram for my specific Allison transmission model? Contact Allison directly, consult a certified repair shop, or explore specialized online forums for assistance.
5. Are there any software programs that help with interpreting Allison transmission diagrams? Yes, some diagnostic software packages include detailed diagrams and interactive parts lists.
6. What safety precautions should I take when working with Allison transmissions? Always wear appropriate safety gear, disconnect the battery, and be cautious of high-pressure hydraulic systems.
7. How often should I refer to an Allison transmission parts diagram? Regularly consult diagrams during maintenance, troubleshooting, and any repair work.
8. Can I use generic transmission diagrams instead of Allison-specific ones? No, always use diagrams specific to your Allison transmission model to ensure accuracy and safety.
9. What is the best way to store and organize my Allison transmission parts diagrams? Use a labeled binder, digital file system, or a combination of both for easy access and reference.

Related Articles:

1. Allison Transmission Troubleshooting Guide: A practical guide covering common problems and troubleshooting techniques.

2. Allison Transmission Fluid Change Procedure: A step-by-step guide on performing a proper transmission fluid and filter change.
3. Understanding Allison Transmission Codes: Decoding diagnostic trouble codes and their meanings for efficient troubleshooting.
4. Allison Transmission Repair Manual Review: A comparative review of available repair manuals and their usefulness.
5. Allison Transmission Torque Converter Replacement: A detailed guide on replacing the torque converter, a crucial part of the transmission.
6. Maintaining Allison Transmission Health: Tips and practices for preventative maintenance to extend transmission life.
7. Choosing the Right Allison Transmission Fluid: A guide to selecting the appropriate transmission fluid for your specific model.
8. Common Allison Transmission Problems and Solutions: An overview of frequently encountered problems and their effective solutions.
9. Allison Transmission Electronic Control Systems: An explanation of the electronic control units and their role in transmission operation.

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allison transmission parts diagram: Direct and General Support Maintenance Manual , 1971

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allison transmission parts diagram: Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative

modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

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allison transmission parts diagram: *Plant Biology* Alison M. Smith, George Coupland, Liam Dolan, Nicholas Harberd, Jonathan Jones, Cathie Martin, Robert Sablowski, Abigail Amey, 2009-04-30 *Plant Biology* is a new textbook written for upper-level undergraduate and graduate students. It is an account of modern plant science, reflecting recent advances in genetics and genomics and the excitement they have created. The book begins with a review of what is known about the origins of modern-day plants. Next, the special features of plant genomes and genetics are explored. Subsequent chapters provide information on our current understanding of plant cell biology, plant metabolism, and plant developmental biology, with the remaining three chapters outlining the interactions of plants with their environments. The final chapter discusses the relationship of plants with humans: domestication, agriculture and crop breeding. *Plant Biology* contains over 1,000 full color illustrations, and each chapter begins with Learning Objectives and concludes with a Summary.

allison transmission parts diagram: Operator's, Organizational, Direct Support, General Support, and Depot Maintenance Manual (including Repair Parts Information and Supplemental Maintenance and Repair Parts Instructions) for Loader, Scoop Type, DED, 4 X 4, Articulated Frame Steer, 4 1/2 to 5 Cubic Yard (CCE), Clark Model 175 B, Type I with 4 1/2 Cu. Yd. Bucket, NSN 3805-00-602-5006, Clark Model 175, Type II with 5 Cu. Yd. General Purpose Bucket, NSN 3805-00-602-5013 , 1981

allison transmission parts diagram: Ross & Wilson Anatomy and Physiology in Health and Illness Anne Waugh, Allison Grant, 2018-07-12 The new edition of the hugely successful Ross and Wilson Anatomy & Physiology in Health and Illness continues to bring its readers the core essentials of human biology presented in a clear and straightforward manner. Fully updated throughout, the book now comes with enhanced learning features including helpful revision questions and an all new art programme to help make learning even easier. The 13th edition retains its popular website, which contains a wide range of 'critical thinking' exercises as well as new animations, an audio-glossary, the unique Body Spectrum® online colouring and self-test program, and helpful weblinks. Ross and Wilson Anatomy & Physiology in Health and Illness will be of particular help to readers new to the subject area, those returning to study after a period of absence, and for anyone whose first language isn't English. - Latest edition of the world's most popular textbook on basic human anatomy and physiology with over 1.5 million copies sold worldwide - Clear, no nonsense writing style helps make learning easy - Accompanying website contains animations, audio-glossary, case studies and other self-assessment material, the unique Body Spectrum® online colouring and self-test software, and helpful weblinks - Includes basic pathology and pathophysiology of important diseases and disorders - Contains helpful learning features such as Learning Outcomes boxes, colour coding and design icons together with a stunning illustration and photography collection - Contains clear explanations of common prefixes, suffixes and roots, with helpful examples from the text, plus a glossary and an appendix of normal biological values. - Particularly valuable for students who are completely new to the subject, or returning to study after a period of absence, and for anyone whose first language is not English - All new illustration programme brings the book right up-to-date for

today's student - Helpful 'Spot Check' questions at the end of each topic to monitor progress - Fully updated throughout with the latest information on common and/or life threatening diseases and disorders - Review and Revise end-of-chapter exercises assist with reader understanding and recall - Over 120 animations - many of them newly created - help clarify underlying scientific and physiological principles and make learning fun

allison transmission parts diagram: Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems Gus Wright, Owen C. Duffy, 2019-07 Thoroughly updated and expanded, 'Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems, Second Edition' offers comprehensive coverage of basic concepts building up to advanced instruction on the latest technology, including distributed electronic control systems, energy-saving technologies, and automated driver-assistance systems. Now organized by outcome-based objectives to improve instructional clarity and adaptability and presented in a more readable format, all content seamlessly aligns with the latest ASE Medium-Heavy Truck Program requirements for MTST. --Back cover.

allison transmission parts diagram: Manuals Combined: U.S. Army M923 M927 M929 M931 M932 M934 M939 Truck Operator Repair Parts Manuals , OVERVIEW: a. The following manuals contains instructions for operating and servicing the following M939/A1/A2 series vehicles: (1) M923/A1/A2, Cargo Truck, WO/W (Dropside) (2) M925/A1/A2, Cargo Truck, W/W (Dropside) (3) M927/A1/A2, Cargo Truck, WO/W (XLWB) (4) M928/A1/A2, Cargo Truck, W/W (XLWB) (5) M929/A1/A2, Dump Truck, WO/W (6) M930/A1/A2, Dump Truck, W/W (7) M931/A1/A2, Tractor Truck, WO/W (8) M932/A1/A2, Tractor Truck, W/W (9) M934/A1/A2, Expansible Van, WO/W (10) M936/A1/A2, Medium Wrecker, W/W b. Vehicles' purpose. (1) The M923/A1/A2, M925/A1/A2, M927/A1/A2, and M928/A1/A2 series cargo trucks provide transportation of personnel or equipment over a variety of terrain and climate conditions. (2) The M929/A1/A2 and M930/A1/A2 series dump trucks are used to transport various materials over a variety of terrains. Each vehicle can be equipped with troop seat, and tarpaulin and bow kits for troop transport operations. (3) The M931/A1/A2 and M932/A1/A2 series tractor trucks are equipped with a fifth wheel used to haul a semitrailer over a variety of terrain. (4) The M934/A1/A2 series expansible vans are designed to transport electronic base stations over a variety of terrain. (5) The M936/A1/A2 series wreckers are designed for recovery of disabled or mired vehicles, and perform crane operation. CONTENTS: TM 9-2320-272-10 OPERATORS MANUAL FOR TRUCK, 5-TON, 6X6, M939, M939A1, AND M939 SERIES TRUCKS (DIESEL), TRUCK, CARGO: 5-TON, 6X6 DROPSIDE, M923 (2320-01-0505-2084) (EIC: BRY); M923A1 (2320-01-206-4087) EIC: M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-8771) (E M927A1 (2320-01-206-4089) (EIC: BSW); M27A2 (2320-01-230-0309) (BS9); M928 (2320-01-047-8770) (EIC: BRU); M928A1 (2320-01-206- (EI TM 9-2320-272-10-HR HAND RECEIPT COVERING END ITEM/COMPONENTS OF END ITEM (COEI), B ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LISTS (AAL) FOR TRUCK, 5-TON, 6X6, M939, M939A1 AND M939A2 SERIES (DIESEL): TRU CARGO: 5-TON, 6X6, DROPSIDE, M923 (2320-01-050-2084), M923A1 (2320-01-206-4087), M923A2 (2320-01-230-0307), M925 (2320-01-04 M925A1 (2320-01-206-4088), M925A2 (2320-01-230-0308); TRUCK, CA 5-TON 6X6, M924 (2320-01-047-8773), M924A1 (2320-01-205-2692), (2320-01-047-8772), M926A1 (2320-01-205-2693); TRUCK, CARGO: 5- 6X6, TM 9-2320-272-24-1 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FOR TRUCK, 5-TON, 6X6, M939, M939A1, M939A2 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BR M925A1(2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-87 (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M927A2 (2320-01-230-030 TM 9-2320-272-24-2 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FO TRUCK, 5-TON, 6X6, M939, M939A1, M939A2 SERIES TRUCKS (DIESEL) TRUCK, CARGO:

5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BR M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2350-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-87 (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M927A2 (2320-01-230-03 TM 9-2320-272-24-3 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FO TRUCK, 5-TON, 6X6, M939, M939A1, M939A2 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BR M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-87 (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M927A2 (2320-01-230-03 TM 9-2320-272-24-4 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FO 5-TON, 6X6, M939, M939A1, M939A2 SERIES TRUCKS (DIESEL): TRUCK, 5-TON, 6X6, DROPSIDE , M923 (NSN 2320-01-050-2084) (EIC: BRY); (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-2302-0307) (EIC: M925 (2320-01-047-8769) (EIC: BRT); N925A1 (2320-01-206-4088) (M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 M927 (2320-01-047-8771) (EIC: BRV); M927A1 (2320-01-206-4089) (M927A2 (2320-01-230-0309) (EIC: BS9); M928 (2320-01-047-8770) (M9 TM 9-2320-272-24P-1 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PA AND SPECIAL TOOLS LIST FOR TRUCK, 5-TON, 6X6, M939, M939A1, M93 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BRT); M925A1 (2320-01-206-4088) (EIC: M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 M927 (2320-01-047-8771) (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M9 TM 9-2320-272-24P-2 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR TRUCK, 5-TON, 6X6, M939, M939A1, M93 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BRT); M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-8771) (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M LO 9-2320-272-12 TRUCK, 5-TON, 6X6, M939, M939A1 AND M939A2 SERIES (DIESEL) TRUC CARGO, 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084), M923A (2320-01-206-4087), M923A2 (2320-01-230-0307), M925 (2320-01-04 M925A1 (2320-01-206-4088), M925A2 (2320-01-230-0308); TRUCK, CA 5-TON, 6X6, M924 (2320-01-047-8773), M924A1 (2320-01-205-2692), M926 (2320-01-047-8772), M926A1 (2320-01-205-2693): TRUCK, CARG 5-TON, 6X6, XLWB, M927 (2320-01-047-8771), M927A1 (2320-01-206- M927A2 (2320-01-230-0309), M928 (2320-01-047-8770), M928A1 (2320 TB 11-5820-890-20-71 INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPMENT MK-2378/VRC (NSN 5895-01-225-0518) TO PERMIT INSTALLATION OF RADIO SET AN/VRC-87/88/90 SERIES IN M923, M924, M925, M926, M927, M928, M931, M932, M933, AND M936 TRUCK, 5-TON TB 9-2300-358-24 WARRANTY PROGRAM FOR TRUCK, 5-TON, 6X6 M939A2 SERIES TRUCK, CAR 5-TON, 6X6, DROPSIDE, M923A2 (NSN 2320-01-230-0307) M925A2 (2320-01-230-0308) TRUCK, CARGO: 5-TON, 6X6, XLWB, M927A2 (2320-01-230-0309) M928A2 (2320-01-230-0310) TRUCK, DUMP: 5-TON 6X6 M929A2 (2320-01-230-0305) M930A2 (2320-01-230-0306) TRUCK, TRACTOR: 5-TON, 6X6 M931A2 (2320-01-230-0302) M932A2 (2320-01-230-0303) TRUCK, VAN EXPANSIBLE: 5-TON, 6X6 M934A2 (2320-01-230-0300) M935A2 (2320-01-230-0301) TRUCK, MEDIUM WREC 5-TON 6X6 M936A2 (2320-01-2

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- Find your strengths and weaknesses with a self-evaluation
- Explore and examine your fears

•Create a personalized plan for change •Put your plan into action through gentle and gradual exposure to social situations Information about therapy, medications, and other resources is also included. After completing this program, you'll be well-equipped to make connections with the people around you. Soon, you'll be on your way to enjoying all the benefits of being actively involved in the social world. This book has been awarded The Association for Behavioral and Cognitive Therapies Self-Help Seal of Merit — an award bestowed on outstanding self-help books that are consistent with cognitive behavioral therapy (CBT) principles and that incorporate scientifically tested strategies for overcoming mental health difficulties. Used alone or in conjunction with therapy, our books offer powerful tools readers can use to jump-start changes in their lives.

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