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## ATSG ALLISON 1000/2000

# ATSG Allison 1000/2000 Transmission Repair Manual

Comprehensive Technical Guide for Diagnosis, Overhaul, and Repair

## INTRODUCTION

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This ATSG Allison 1000/2000 Transmission Technical Manual is an essential resource for technicians and mechanics involved in the diagnosis, overhaul, and repair of Allison 1000 and 2000 series transmissions. Specifically, it covers Allison Generation 1 transmissions found in 2000 and newer C and K Series trucks. The manual provides detailed, step-by-step instructions to facilitate accurate and efficient servicing of these complex units.

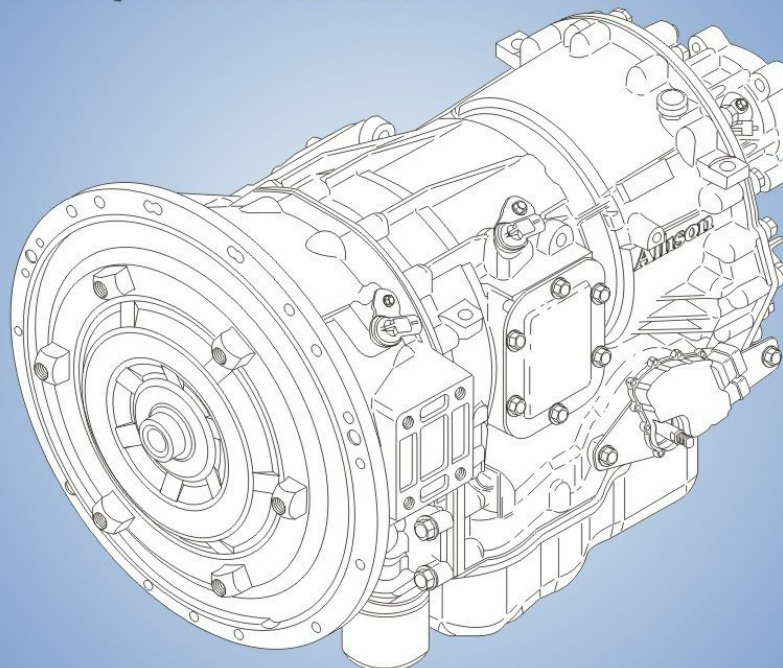
Authored by ATSG's professional technical staff, who collectively possess over a century of experience, this guide ensures a thorough understanding of the transmission's components and functions. It is designed to be a complete reference for anyone undertaking repair, overhaul, or servicing tasks.



**GENERAL MOTORS  
TRUCKS  
TECHTRAN™ MANUAL**

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**1000/2000 SERIES**



**AUTOMATIC TRANSMISSION SERVICE GROUP**

Image of the ATSG Allison 1000/2000 Transmission Repair Manual, showing the front cover with the title and ATSG logo.

## MANUAL USAGE AND STRUCTURE

This manual is structured to provide clear and concise information, guiding the user through various procedures. It employs a logical flow, starting from identification and moving through detailed repair steps. Key features include:

- **Detailed Explanations:** Each procedure is broken down into manageable steps for ease of understanding.

- **High-Quality Charts and Diagrams:** Visual aids are integrated throughout to clarify complex assemblies and electrical systems.
- **Comprehensive Coverage:** From basic servicing to full rebuilds, all aspects are addressed.

## UNDERSTANDING TRANSMISSION OPERATION

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While primarily a repair guide, this manual includes sections dedicated to understanding the operational principles of the Allison 1000/2000 transmissions. This knowledge is crucial for effective diagnosis and repair. Topics covered include:

- **Electronic Controls:** Detailed information on the electronic control systems that govern transmission function.
- **Operational Principles:** Explanations of how the transmission operates under various conditions.
- **Wiring Harness Locations and Routing:** Essential for understanding electrical connections and troubleshooting.
- **Electrical Diagrams:** Comprehensive schematics to aid in electrical system analysis.

## MAINTENANCE PROCEDURES

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Proper maintenance is vital for the longevity and performance of Allison transmissions. This manual provides guidance on various maintenance tasks, including:

- **Band Adjustment:** Instructions for correct band adjustment procedures.
- **Torque Specifications:** Critical torque values for all fasteners to ensure proper assembly and prevent damage.
- **General Servicing:** Guidelines for routine service intervals and procedures.

## TROUBLESHOOTING AND DIAGNOSIS

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Effective troubleshooting is a cornerstone of transmission repair. This manual offers comprehensive sections dedicated to diagnosing common and complex issues. It covers:

- **Diagnostic Flowcharts:** Step-by-step guides to identify the root cause of transmission malfunctions.
- **Troubleshooting Tables:** Common symptoms, possible causes, and recommended solutions.
- **Electronic Control Diagnostics:** Specific procedures for diagnosing issues related to the transmission's electronic systems.

## REPAIR AND OVERHAUL PROCEDURES

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The core of this manual lies in its detailed instructions for repairing and overhauling the Allison 1000/2000 transmission. It provides a complete guide from start to finish, including:

- **Assembly and Disassembly:** Comprehensive steps for taking the transmission apart and putting it back together.
- **Parts Identification:** Exploded views and diagrams to help identify all internal and external components.
- **Individual Component Rebuild:** Instructions for rebuilding specific parts of the transmission.
- **Internal Planetary Components:** Detailed information on the planetary gear sets and their servicing.

- **Valve Body Identification:** Guidance on identifying and servicing the valve body.
- **Extension Housing Overviews:** Information pertinent to the extension housing and its components.

## SPECIFICATIONS

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This manual includes critical specifications necessary for accurate repair and assembly:

- **Model Covered:** ALLISON 1000/2000
- **Physical Dimensions:** Approximately 11 x 8.3 x 0.3 inches
- **Item Weight:** Approximately 12.8 ounces
- **Key Features:** Step-by-step repair solutions, high-quality charts, valve body identification, electrical diagrams, electronic controls, and detailed explanations.

## SUPPORT AND RESOURCES

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As a technical manual produced by ATSG, this guide represents the culmination of extensive experience and knowledge in automatic transmission service. For further support or inquiries regarding ATSG products and technical information, please refer to official ATSG resources. This manual is designed to empower users with the knowledge to perform repairs confidently and accurately.