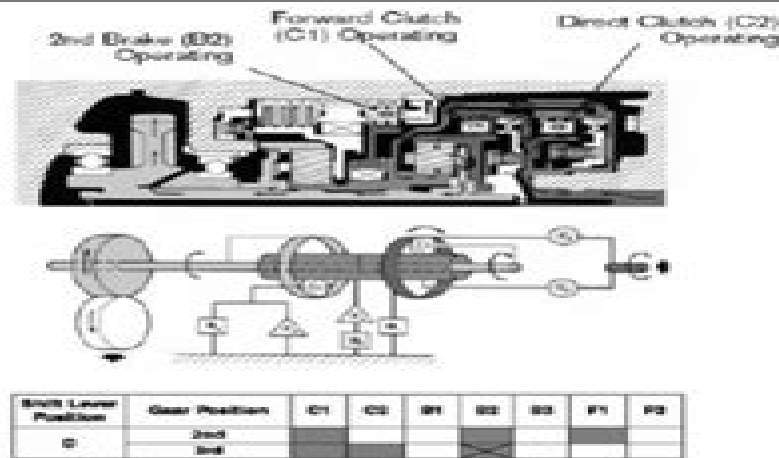


## Section 1

# Automatic Transmission Basics



### Lesson Objectives

1. Describe the function of the torque converter.
2. Identify the three major components of the torque converter that contribute to the multiplication of torque.
3. Describe the operation of each major torque converter component.
4. Describe the operation of the lock-up mechanism of the torque converter.
5. Identify the three major components of the simple planetary gear set.
6. Describe the function of the simple planetary gear set to provide speed change, torque change and directional change.
7. Describe the operation of multi-plate clutches, brake bands and one-way clutches.
8. Describe the effect of centrifugal fluid pressure on the operation of a multi-plate clutch.
9. Given a clutch application chart and planetary gear model:
  - a. identify which holding devices are applied for each gear range.
  - b. identify the planetary gear components held for each gear range.
  - c. use a process of elimination to determine the proper function of holding devices by testing it's operation in another gear range.
  - d. use parallel holding devices to narrow diagnosis to faulty clutch or brake.
10. Describe the difference between overdrive operation in the front wheel drive and rear wheel drive automatic transmissions.

# Automatic Transmission Basics

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## **Automatic Transmission Basics:**

**Automotive Transmissions** Giesbert Lechner, Harald Naunheimer, 1999-06-18 This book seeks to impart lines of reasoning demonstrate approaches and provide comprehensive data for practical tasks Although much of the content is concerned with aspects of technology and production that are of general validity and hence of enduring relevance there is also a chapter on various state of the art production designs The strong market dynamics in recent years is reflected in numerous new transmission types and major lines of evolution treated include the increasing use of electronics light weight construction and the automation of manual gearboxes The expertise recorded here mainly springs from joint projects between German and international car and gear manufacturers

**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

**Car Basics (Collins Gem)** Kevin Elliott, 2012-05-24 Challenged by the thought of changing a wheel Want to know where the water goes Buying a car and faced with unfamiliar legal documents Help is at hand Gem Car Basics is the essential pocket companion to car maintenance safety and regulations

**Popular Science**, 1976-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

**CONAT 2024 International Congress of Automotive and Transport Engineering** Anghel Chiru, Dinu Covaciu, 2024-11-19 These 3 volume proceedings includes selected and reviewed papers from CONAT 2024 the 13th edition of the International Congress of Automotive and Transport Engineering held in Brasov Romania in November 2024 Authors are experts from research industry and universities coming from around the world The papers are covering the latest developments in automotive vehicles and environment advanced transport systems and road traffic advanced powertrain systems new materials manufacturing technologies and logistics accident research and analysis and innovative solutions for automotive vehicles The congress is organized by SIAR Society of Automotive Engineers from Romania in cooperation with SAE International and Transilvania University of Brasov This first volume presents the papers on Advanced Powertrain Systems Advanced Engineering Methods as well as Vehicle Dynamics and Vehicle Systems

**Automatic Transmissions and Transaxles** Jack Erjavec, 2005-11 New from today s leading automotive education publisher each of our eight NATEF National Automotive Technicians Education Foundation Standards Job Sheets workbooks has been thoughtfully designed to assist users in gaining valuable job preparedness skills and mastering specific technical

competencies required for success as a professional automotive technician Ideal for use as a stand alone item or with any comprehensive or topic specific automotive text the entire series is based on the 2005 NATEF tasks and consists of individual books for each of the following areas Engine Repair Automatic Transmissions Transaxles Manual Drive Trains and Axles Suspension and Steering Brakes Electricity Electronics Heating and Air Conditioning and Engine Performance Central to each manual are well designed and easy to read job sheets each of which contains specific performance based objectives lists of required tools and materials safety precautions plus step by step procedures to lead users to completion of shop activities As they work through each task users are encouraged to conduct tests record measurements make observations and employ critical thinking skills in order to draw conclusions Space for users to make notes concerning problems encountered while working as well as space for instructors to add comments and or grades is also included NATEF Standards Job Sheet - A2 Automatic Transmissions and Transaxles Jack Erjavec, Delmar Thomson Learning, Erjavec, Thomson Delmar Learning, 2002-02-14 New from today's leading automotive education publisher each of our eight NATEF National Automotive Technicians Education Foundation Standards Job Sheets workbooks has been thoughtfully designed to assist users in gaining valuable job preparedness skills and mastering specific technical competencies required for success as a professional automotive technician Ideal for use as a stand alone item or with any comprehensive or topic specific automotive text the entire series is based on current NATEF standards and consists of individual books for each of the following areas Engine Repair Automatic Transmissions Transaxles Manual Drive Trains and Axles Suspension and Steering Brakes Electricity Electronics Heating and Air Conditioning and Engine Performance Central to each manual are well designed and easy to read job sheets each of which contains specific performance based objectives lists of required tools and materials safety precautions plus step by step procedures to lead users to completion of shop activities As they work through each task users are encouraged to conduct tests record measurements make observations and employ critical thinking skills in order to draw conclusions Space for users to make notes concerning problems encountered while working as well as space for instructors to add comments and or grades is also included **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1978 **Basics** John Remling, 1981 **Automatic Transmissions and Transaxles** Mathias F. Brejcha, 1993 This exciting text once again presents up to date material in an easy to understand format Fundamentals of operation diagnostic procedures and service practices blend from a basic level to a comprehensive status designed to meet all levels of training Text material supports NATEF requirements and ASE certification for automatic transmissions and transaxles new photographs and artwork reflect the most recent technologies in the study of automatic transmissions and transaxles both ASE and conventional styled chapter questions are included combines fundamentals of operation and principles of diagnosis and service into one text the wide range of topic matter is sectioned into numerous chapters making the book adaptable to a variety of course designs and teaching styles student learning objectives are presented in a

Challenge Your Knowledge format at the beginning of each chapter      *Automotive Service Basics* John Remling, 1989

**Automatic Transmission Fundamentals** William L. Husselbee, 1980      **Programming Basics** Todd Knowlton, Karl Barksdale, Stephen Collings, E. Shane Turner, Inc Cep, Cep Inc, 2001-08      *AUTOMOTIVE FUNDAMENTALS FOR CONSUMERS* JAY WEBSTER, 1976      *Automotive Technology - Lti Edition* Jack Erjavec, 1993-09      *Synthesizer Basics*, 1984      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1977      Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1977      **Automotive Literature Index**, 1981 Vol for 1947 76 indexes Car and driver Motor trend and Road 1977 81 indexes 15 American automotive journals      **Dynamic Analysis and Control System Design of Automatic Transmissions** Joel M Maguire, Huei Peng, Shushan Bai, 2013-02-12

While the basic working principle and the mechanical construction of automatic transmissions has not changed significantly increased requirements for performance fuel economy and drivability as well as the increasing number of gears has made it more challenging to design the systems that control modern automatic transmissions New types of transmissions continuously variable transmissions CVT dual clutch transmissions DCT and hybrid powertrains have presented added challenges Gear shifting in today s automatic transmissions is a dynamic process that involves synchronized torque transfer from one clutch to another smooth engine speed change engine torque management and minimization of output torque disturbance Dynamic analysis helps to understand gear shifting mechanics and supports creation of the best design for gear shift control systems in passenger cars trucks buses and commercial vehicles Based on the authors graduate level teaching material this well illustrated book relays how the fundamental principles of hydraulics and control systems are applied to today s automatic transmissions It opens with coverage of basic automatic transmission mechanics and then details dynamics and controls associated with modern automatic transmissions Topics covered include gear shifting mechanics and controls dynamic models of planetary automatic transmissions design of hydraulic control systems learning algorithms for achieving consistent shift quality torque converter clutch controls centrifugal pendulum vibration absorbers friction launch controls shift scheduling and integrated powertrain controls continuously variable transmission ratio controls dual clutch transmission controls and more The book includes many equations and clearly explained examples Sample Simulink models of various transmission mechanical hydraulic and control subsystems are also provided Chapter Two which covers planetary gear automatic transmissions includes homework questions making it ideal for classroom use In addition to students new engineers will find the book helpful because it provides the basics of transmission dynamics and control More experienced engineers will appreciate the theoretical discussions that will help elevate the reader s knowledge Although many automatic transmission related books have been published most focus on mechanical construction operation principles and control hardware None tie the dynamic analysis control system design and analytic investigation of the mechanical hydraulic and electronic controls as does this book

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