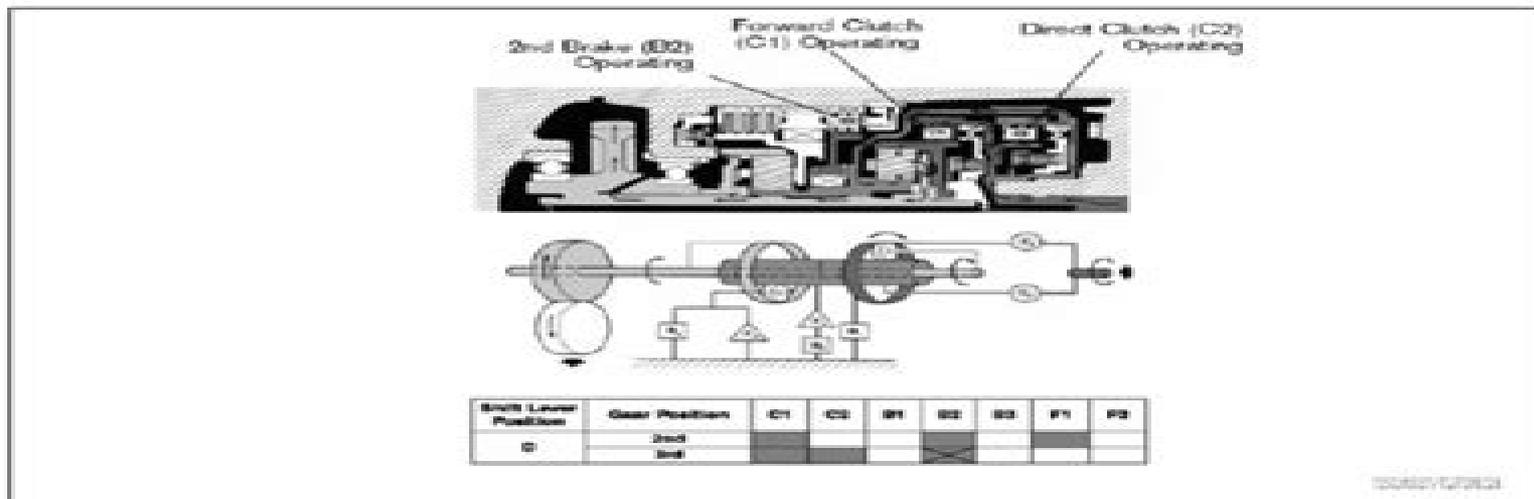


Section 1

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

**Jack Erjavec, Delmar Thomson
Learning, Erjavec, Thomson Delmar
Learning**

Automatic Transmission Basics:

Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems Gus Wright, Owen C. Duffy, 2019-07-15

Fundamentals of Medium Heavy Duty Commercial Vehicle Systems Second Edition offers comprehensive coverage of basic concepts and fundamentals building up to advanced instruction on the latest technology coming to market for medium and heavy duty trucks and buses This industry leading Second Edition includes six new chapters that reflect state of the art technological innovations such as distributed electronic control systems energy saving technologies and automated driver assistance systems

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 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1978

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 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 [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

AUTOMOTIVE FUNDAMENTALS FOR CONSUMERS JAY WEBSTER,1976 *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

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