

Automatic Transmissions and Transaxles (5th Edition) (Professional Technician)

By Thomas W. Birch

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Ideal for both novice and advanced technicians, ***Automatic Transmissions and Transaxles, Fifth Edition,*** provides a complete, state-of-the-art source on the operating principles as well as the service and repair procedures for modern automatic transmissions and transaxles. Correlated to NATEF and ASE tasks, the text focuses on the generic theory that underlies the operation, diagnosis, and repair of the units and subassemblies found in the many makes and types of vehicles students will likely encounter on the job. Formatted to better meet the learning needs of today's technical trade students, it visually supports concepts covered throughout, and includes many practical shop tips that guide students through important problem-solving procedures they'll use on the job.

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Editorial Review

From the Back Cover

Electronic control has revolutionized the field of automotive technology. Automatic transmissions and transaxles in cars today have less weight, increased gear ranges, and improved efficiency, performance, and durability. They also have increased complexity of operation. This new edition of *Automatic Transmissions and Transaxles* will help technicians understand and work with the new technology.

Automatic Transmissions and Transaxles presents the theory of operation for the major power transfer and control systems as wail as the diagnosis, service, and repair of common problems.

Key features of this edition:

- Over 850 illustrations reinforce the concepts and show repair procedures.
- Service Tips describe procedures that can help make a job flow more efficiently. Real World Fixes show actual case studies of how problems were diagnosed and repaired.
- The book is oriented around the NATEF task list and meets the needs of technicians preparing for the ASE exam on automatic transmissions.

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The automobile has undergone a continuous evolution since its introduction in the late 1800s. Today's vehicles still incorporate most of the major features of the very early ones, yet are vastly different in many aspects. Durability and longevity have increased many times over. Drivability and fuel mileage are slowly but steadily improving, while exhaust emissions are steadily decreasing. For all this, vehicles still break and wear out.

The somewhat heavy, bulky, and cantankerous automatic transmissions introduced in the mid1900s have lost size and weight, gained gear ranges, and improved efficiency which has, in turn, helped improve vehicle operation. The transmissions have become more complicated, however. At one time, a transmission technician could memorize particular transmissions such as the Powerglide, C4, or THM 350. The technician would become and remain an expert on that unit for a number of years; changes were relatively few and infrequent. Those days are gone. Now there are many different transmissions, and some of these go through changes every year.

Automatic Transmissions/Transaxles, Second Edition, was written to help the student understand the automatic transmissions used in passenger cars, sport utility vehicles, pickups, light trucks, and vans. It describes the theory of operation for the major power transfer and control systems as well as the methods to diagnose and repair. the more common problems.

The theory chapters provide the student technician with an understanding of how the various systems work, the terminology used, and the variety of systems that can be encountered. For example, early transmissions used hydraulic valves to control shift timing and feel. Modern transmissions use electronics for this same purpose, and in many cases the electronics have become integrated with the electronic engine controls. A technician needs to keep abreast of the technical advancements as vehicles evolve. If he or she understands

how the systems operate, successful repair becomes much easier.

The service and repair chapters complete the coverage of each system by describing the procedure used to maintain a system for proper operation; diagnosing the cause of a problem if it does occur; and then repairing or adjusting the unit to correct the root cause of the problem. These chapters are covered in a generic fashion, as general to all makes and types of vehicles as possible. Printed and electronic service information is commonly used in the automotive repair industry. It takes more than just the ability to read to use this information effectively. It is not the authors' intent to replace these manuals, but to supplement them so the student technician can gain full benefit from these valuable sources of information. This book describes how to do the service operations, and the service information tells what operations are necessary for a particular transmission.

The service chapters have been made more realistic by the addition of two features. Service Tips, which describe procedures that can make a job faster or ensure a more thorough repair, and Real-World Fix are case studies of how technicians have solved and repaired problems that have occurred.

This book covers all the areas contained in the Automotive Service Excellence (ASE) test for automatic transmissions/transaxles, and the ASE task list for this area is included as an appendix. The student technician who has had class instruction and shop experience should have no trouble in passing the ASE Automatic Transmission/Transaxle test.

Chapter 18 is new. It describes nonstock changes or modifications that can be made to solve unique problems or tailor a unit for a special purpose. This chapter should satisfy a student's curiosity about these modifications and what they do.

For the instructor who is using this book, a complete instructor's guide to accompany this text is available from the publisher. The contents include the answer key for the chapter review and quiz questions plus sources of teaching aids, additional test questions, and student exercises.

Users Review

From reader reviews:

Rose Waldman:

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