

APPENDIX B

*Automotive Technology 11 and 12
Grade Collections*

**AUTOMOTIVE TECHNOLOGY 11 AND 12 :
GRADE COLLECTIONS**

This section begins with an overview of the comprehensive resources for this curriculum, then presents Grade Collection charts for each grade. These charts list both *comprehensive* and *additional* resources for each curriculum organizer for the grade. The charts are followed by an annotated bibliography. Teachers should check with suppliers for complete and up-to-date ordering information. Most suppliers maintain web sites that are easy to access.

MEDIA ICONS KEY



Audio Cassette



CD-ROM



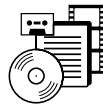
Film



Games/Manipulatives



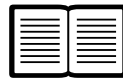
Laserdisc/Videodisc



Multimedia



Music CD



Print Materials



Record



Slides



Software



Video

**TECHNOLOGY EDUCATION 11 AND 12:
AUTOMOTIVE TECHNOLOGY GRADE COLLEC-
TIONS**

OVERVIEW OF COMPREHENSIVE RESOURCES

- *Auto Diagnosis, Service, and Repair* (Stockel, M. et al.) (Grades 11 and 12)

This comprehensive resource package replaces the 1996 edition of *Auto Service and Repair*. The 2003 edition includes a 1024-page textbook, 426-page Instructor’s Manual, and 547-page Workbook.

The textbook comprises 42 chapters with three appendices, a dictionary of automotive terms, and an index. It leads students and teachers through service, troubleshooting and repair procedures, and includes information on OBD II diagnostics, enhanced emissions testing, antilock brakes, air bags, and R-124a refrigerant. The textbook is organized around the eight ASE automobile test areas.

The accompanying workbook is a convenient study guide and shop activity manual correlated directly to the textbook. The workbook has three major types of exercises: Review Questions (multi-format textbook review), ASE-Type Questions (review questions presented in ASE format), and Jobs (in-shop activities).

The Instructor’s Manual includes answers to the textbooks, review and ASE-type questions, workbook questions, workbook jobs, chapter quizzes, and ASE sample tests. It also contains reproducible masters to supplement the material in the textbook and workbook.

- *Automotive Excellence, Volumes 1 and 2* (Grades 11 and 12)

Each comprehensive volume includes a textbook, academic applications, workbook, CD-ROM, transparencies, technical applications workbook and an instructor’s resource binder. The material is current, relevant and covers the fundamentals of

service and repair required in Automotive Technology 11 and 12. Volume 1 covers brakes, electrical and electronic systems, engine performance, suspension and steering. Volume 2 covers engine repair, heating and air conditioning, automatic transmissions and transaxles and manual drive trains and axles.

- *Auto Fundamentals* (Stockel, M.W. et al.) (Grades 11 and 12)

This comprehensive resource, consisting of a text, a workbook and an instructor’s manual, covers the design, operation and construction of the automobile and its systems. The resource is well laid-out and sequential and the concepts are clear. It provides good coverage of basic theory, accompanied by interesting historic diagrams. The 607-page textbook provides students with all the necessary theoretical information, which can be further reinforced with the 351-page workbook. It should be noted that this resource covers fundamentals only, i.e., not repairs. Another recommended resource that should accompany this resource is *Auto Diagnosis, Service, and Repair*

Note: The 300-page instructor’s manual could also be used by a teacher who has minimal knowledge of mechanics.

- *Automotive Service: Inspection, Maintenance, and Repair* (Gilles, T.) (Grades 11 and 12)

This very comprehensive and well-written text supports the prescribed learning outcomes and covers the fundamentals of operation and repair for all major systems of the modern automobile. It introduces the fundamentals of systems and progresses onto diagnosis and service; accompanied by illustrations, shop tips, safety notes and review questions to aid in comprehension. Each chapter includes objectives, key terms, notes, activities correlated to the Lab

Manual and review questions. Supplementary materials include a Lab Manual and an Instructor's Guide.

- *Automotive Technology: A Systems Approach, Third Edition*
(Erjavec, J.) (Grades 11 and 12)

This 1343-page textbook is an excellent resource offering comprehensive coverage of the prescribed learning outcomes. The text is well laid out with excellent diagrams and pictures, and includes 52 photo sequence procedures which are a good reference for students and the teacher. There are many helpful technological tips throughout the text; useful suggestions for activities, such as written and practical assignments for students; and cautions, warnings, customer care, shop talk, and other headings are discussed in each chapter.

- *Motor Automotive Technology*
(Grades 11 and 12)

The material in this resource supports all the prescribed learning outcomes and adequately covers course requirements. The text covers every system found in today's automobile, including mechanical and fluid engine systems, electrical systems, emission and control, power transmission, steering and suspension and much more. Current technology is presented throughout in terms of the latest use of electronic and computer technology. Each chapter contains a "Problem, Diagnosis and Service" section, which encourages critical thinking, as well as diagnostic and repair skills. Optional supplementary materials include a workbook, an instructor's guide and a print test bank.