

VMS Inc.

Publisher / Distributor

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Trade Specific Workbooks on CD - Math, Writing, Vocabulary

These workbooks on CD provide students with applied math, writing, vocabulary, thinking, transition, and work readiness activities that enable them to practice using their basic skills in a workplace context. In addition to improving their skills, students will learn how to use these skills in the real world. Each disk includes over 150 worksheets.

Print from any computer with a CD drive. Nonconsumable. Cost efficient. For an interactive version of the Applied Math Digital Workbooks, see the Applied Math Courseware described below.

Applied Math - Agriculture

- PM-AMDAG, \$79.00

Applied Math - Auto Mechanics

- PM-AMDAM, \$79.00

Applied Math - Horticulture

- PM-AMDHO, \$79.00

Applied Math - Metals/Welding

- PM-AMDMW, \$79.00

Applied Writing - Agriculture

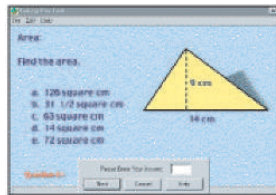
- PM-AWDAG, \$79.00

Applied Writing - Auto Mechanics

- PM-AWDAM, \$79.00

Applied Writing - Metals/Welding

- PM-AWDMW, \$79.00



Applied Vocabulary - Agriculture

- PM-AVDAG, \$79.00

Applied Vocabulary - Auto Body

- PM-AVDAB, \$79.00

Applied Vocabulary - Auto Mechanics

- PM-AVDAM, \$79.00

Applied Vocabulary - Metals/Welding

- PM-AVDMW, \$79.00

Applied Thinking - Agriculture/Environmental

- PM-ATDAG, \$79.00

Applied Thinking - Applied Communication

- PM-ATDAC, \$79.00

Applied Thinking - Applied Math

- PM-ATDAM, \$79.00

Applied Thinking - Applied Science

- PM-ATDAS, \$79.00

Work Readiness - Job Interests

- PM-WRDWJI, \$79.00

Work Readiness - Finding a Job

- PM-WRDWFJ, \$79.00

Applied Math Courseware

This CD-based, interactive, multimedia applied math courseware provides career-based math activities related to specific occupational training areas. Students can improve their basic math skills AND learn how these skills are used in the workplace. The multimedia presentation is packed with colorful graphics, helpful math aids, and many skill-building activities. Over 100 reproducible activities are included in the comprehensive user's guide. Covers: addition, subtraction, multiplication, division, fractions, decimals, percents, rounding numbers, ratio & proportion, scales, linear measurement, perimeter, area, volume, temperature, and angles.

Students are first assessed using a job specific diagnostic test. This is followed by a math review which provides both procedures and practice problems for the skill area. Word problems are covered. Applied math activities are provided. The program manager lets the teacher view, edit & print

student work and add his own math problems to the program.

Agriculture

- PM-AMCAG, \$249.95

Auto Mechanics

- PM-AMCAM, \$249.95

Horticulture

- PM-AMCHO, \$249.95

Metals/Welding

- PM-AMCMW, \$249.95



Engines

2012

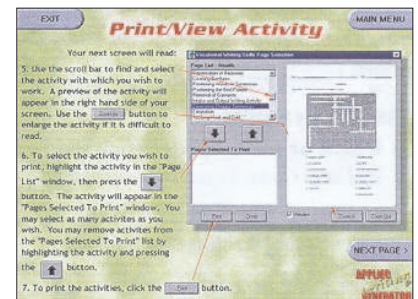
#27ENG

DVDs, Textbooks

References

SHOPTALK - Vocabulary Development

The words and definitions in SHOPTALK have been compiled to make it easy and fun to teach course-related vocabulary. Each CD contains over 100 worksheets emphasizing words and definitions necessary for students to learn the critical vocabulary skills in their occupational program. SHOPTALK prints 10 different types of worksheets: Code Word, Criss-Cross, Cross Word, Missing Letters, Multiple Choice, Scrambled Words, True/False, Word Misspellings, Word Search, and Writing. See *Trade Words* at www.VMS-online.com for the interactive version.



Autobody

- PM-STAB, \$59.95

Auto Mechanic

- PM-STAM, \$59.95

Small Engines

- PM-STSE, \$59.95

Arc Welding

- PM-STAW, \$59.95

Oxy Welding

- PM-STOW, \$59.95

Crop Production

- PM-STCP, \$59.95

Forestry

- PM-STFR, \$59.95

Horticulture

- PM-STHO, \$59.95

1-800-343-6430

Download additional fliers
at www.VMS-online.com.

NATEF Certify Your Automotive Program!!!

NATEF STANDARDS GUIDE & FINAL DOCUMENT

AUTOMOTIVE PROGRAM SELF-EVALUATION

SUMMARY OF AVERAGE SCORES ON NATEF STANDARDS:

Standard 1 _____ Standard 6 _____
 Standard 2 _____ Standard 7 _____
 Standard 3 _____ Standard 8 _____
 Standard 4 _____ Standard 9 _____
 Standard 5 _____ Standard _____

Evaluated by: _____ Date: _____

Evaluated by: _____ Date: _____

Evaluated by: _____ Date: _____

| | | | |
|-----------------|-----------------|-----------------|-----------------|
| Exhibit 1.1.A | Exhibit 1.1.B | Exhibit 1.2.A.1 | Exhibit 1.2.A.2 |
| Exhibit 1.2.A.3 | Exhibit 1.2.A.4 | Exhibit 1.2.A.5 | Exhibit 1.2.A.6 |
| Exhibit 1.2.B | Exhibit 2.1.A | Exhibit 2.2.A | Exhibit 2.3.A |
| Exhibit 2.3.B | Exhibit 2.3.C | Exhibit 2.3.D | Exhibit 2.3.E |
| Exhibit 2.3.F | Exhibit 2.3.G | Exhibit 2.4.A | Exhibit 2.4.B |
| Exhibit 2.4.C | Exhibit 2.5.A | Exhibit 2.5.B | Exhibit 2.5.C |
| Exhibit 2.5.D.1 | Exhibit 2.5.D.2 | Exhibit 2.5.D.3 | Exhibit 2.5.D.4 |
| Exhibit 2.5.D.5 | Exhibit 2.6.A | Exhibit 2.7.A | Exhibit 2.7.B |
| Exhibit 3.1.A | Exhibit 3.1.B | Exhibit 3.2.A | Exhibit 3.2.B |
| Exhibit 3.3.A | Exhibit 3.3.B | Exhibit 3.4.A | Exhibit 3.5.A |
| Exhibit 3.5.B | Exhibit 3.5.C | | |
| Exhibit 4.2.B | Exhibit 4.2.C | | |
| Exhibit 5.1.A.1 | Exhibit 5.1.A.2 | | |
| Exhibit 5.1.C | Exhibit 5.2.A | | |
| Exhibit 5.5.A | Exhibit 5.5.B | | |
| Exhibit 5.5.C.3 | Exhibit 5.5.D | | |
| Exhibit 6.1.A | Exhibit 6.2.A | | |
| Exhibit 6.4.A | Exhibit 6.4.B | | |
| Exhibit 6.5.B.2 | Exhibit 6.5.B.3 | | |
| Exhibit 6.5.B.6 | Exhibit 6.5.B.7 | | |

Have you already applied to NATEF and received your certification materials? Are you ready to complete the Self-Evaluation? What you need now is this software packet to keep yourself focused on the process until certification.

This software provides the forms that are needed to achieve a thorough self-evaluation and make it easier for the NATEF On-Site Team to evaluate your program.

NATEF SELF-EVALUATION SCOREBOARD

Name of school: _____
 GAME PLAN: It is to assure that all program participants are aware of the standards and progress that is being made on the self-evaluation. Each standard item to be signed off only after each of the following has been completed:
 1. Support materials (evidence) are clearly labeled and placed in area of the task (10) standard line or grid.
 2. Mark yes or no if the standard item is adequately supported by exhibits, comments, or both.

| STANDARD | SCORE | EXHIBIT(S) | | COMMENT(S) | PLAYER |
|-----------------------------|---------|------------|----|------------|--------|
| | | YES | NO | | |
| STANDARD 1 - PURPOSE | % | | | | |
| 1.1.A | | | | | |
| 1.1.B | | | | | |
| 1.2.A.1 | | | | | |
| 1.2.A.2 | | | | | |
| 1.2.A.3 | | | | | |
| 1.2.A.4 | | | | | |
| 1.2.A.5 | | | | | |
| 1.2.A.6 | | | | | |
| 1.2.B | | | | | |
| STANDARD 1 AVERAGE SCORE | (0-100) | | | | |
| STANDARD 2 - ADMINISTRATION | | | | | |
| 2.1.A | | | | | |

The NATEF Self-Evaluation Assistance Packet

consists of charts, booklets, scoreboard, and the current NATEF standards. Labels for the exhibits are also included.

These materials were created on-the-job by an Evaluation Team Leader and Mentor for NATEF. The author will provide free advisory service to those that use this packet. He also does ongoing consulting work for schools that request it.

Each packet comes with step-by-step instructions - a great help getting yourself organized for certification. Each is based on current NATEF standards.

- **Automotive: VMS-8101, \$59.95**
- **Collision Repair: VMS-8201, \$59.95**
- **Medium/Heavy Truck: VMS-8301, \$59.95**

EXHIBIT A
 NAME OF SCHOOL: _____
 AUTOMOTIVE COURSE/CATEGORY TIME DISTRIBUTION CHART

| AUTOMOTIVE CATEGORY | DATE | TOTAL HOURS |
|---------------------|-------|-------------|
| Automotive Systems | _____ | _____ |
| Collision Repair | _____ | _____ |
| Medium/Heavy Truck | _____ | _____ |
| Automotive Systems | _____ | _____ |
| Collision Repair | _____ | _____ |
| Medium/Heavy Truck | _____ | _____ |
| Automotive Systems | _____ | _____ |
| Collision Repair | _____ | _____ |
| Medium/Heavy Truck | _____ | _____ |

EXHIBIT B
 NAME OF SCHOOL: _____
 AUTOMOTIVE COURSE/CATEGORY P1 TASK SUMMARY CHART

| AUTOMOTIVE CATEGORY | P1 TASK | TOTAL TASKS |
|---------------------|---------|-------------|
| Automotive Systems | _____ | _____ |
| Collision Repair | _____ | _____ |
| Medium/Heavy Truck | _____ | _____ |
| Automotive Systems | _____ | _____ |
| Collision Repair | _____ | _____ |
| Medium/Heavy Truck | _____ | _____ |
| Automotive Systems | _____ | _____ |
| Collision Repair | _____ | _____ |
| Medium/Heavy Truck | _____ | _____ |

To order: Call toll-free 1-800-343-6430 or Visit our Website: www.VMS-online.com

NATEF Specific Student Auto Lab Manuals

Updated to the 2008 NATEF Standards

- * Specifically designed for high school programs
- * Excellent for VoTech and community college programs too!

High school teachers seeking NATEF Certification have had to create or modify work sheets to fit the NATEF competencies. Further, they have had to correlate the activities to the NATEF self-evaluation documents. Now two high school teachers have completed a set of four manuals that cover the basic NATEF competencies, direct the students through their lab activities, and allow the instructor to use the completed worksheets for NATEF record keeping AND to generate student portfolios.

Each lab includes objectives, resources, tool list, safety precautions, and detailed procedures. The labs are not keyed to any specific text or manual. However, each worksheet includes space for the instructor to add grades and for the students to make notes while they work. When completed, the manuals can be filed for NATEF inspection. They form the basis for the student's portfolio.

These manuals are available as completed, spiralbound books. An instructor's chart of NATEF competencies by lab is contained in the front of each manual.

The site license includes the entire book on disk so that you can add school name, instructors name, instructions specific to your program, etc.

Brakes

31 labs.

- **Softcover:** VMS-469X, \$14.35 (5 or more - \$10.76)
- **Site License (CD):** VMS-4746, \$429.00

Electrical/Electronic Systems

49 labs.

- **Softcover:** VMS-4703, \$19.15 (5 or more - \$14.36)
- **Site License (CD):** VMS-4754, \$495.00

Engine Performance

101 labs.

- **Softcover:** VMS-4711, \$47.95 (5 or more - \$35.96)
- **Site License (CD):** VMS-4762, \$858.00

Suspension & Steering

44 labs.

- **Softcover:** VMS-472X, \$18.50 (5 or more - \$13.86)
- **Site License (CD):** VMS-4770, \$462.00

Complete set of four NATEF Lab Manuals

- **Site License (CD):** VMS-4738, \$1975.00
- **Upgrade from 2005 edition (need license number):** VMS-4789U, \$495.00

General Service Technician

101 labs, 330 pages.

- **Softcover,** VMS-4797, \$47.95 (5 or more - \$35.96)
- **Site License (CD):** VMS-4800, \$858.00

Student Progress Records

These student progress records are a valuable tool for the teacher to use in charting his students' progress through the NATEF task requirements. A great aide for certification requirements. Sold as blank masters so that teachers can copy as needed for their classes. Updated to the 2008 standards.

Basic Set

Includes charts for the four basic areas: Brakes, Engine Performance, Suspension & Steering, and Electricity/Electronics. Will meet the needs of most high school programs.

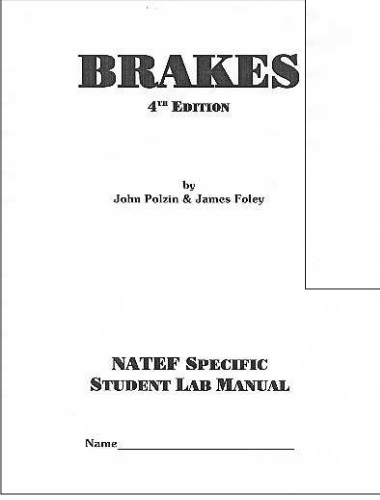
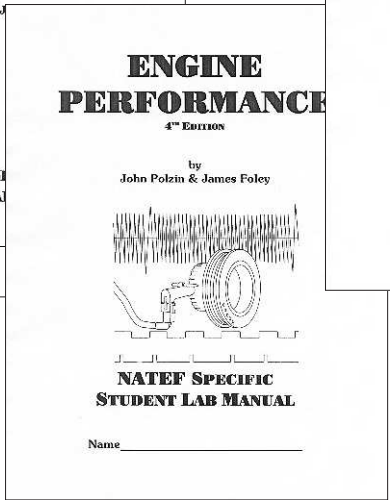
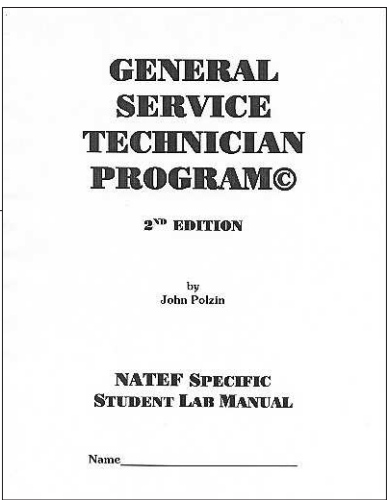
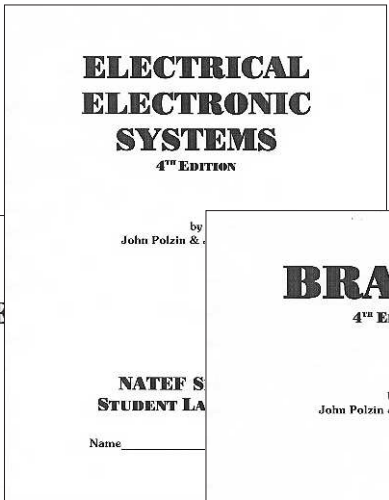
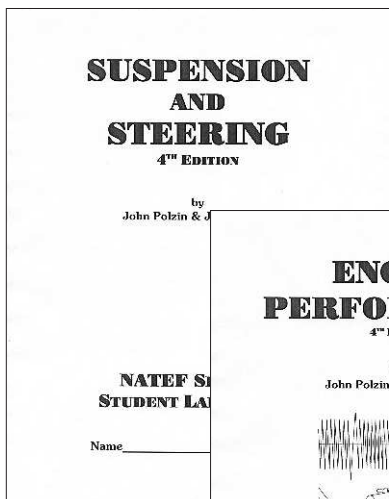
- **VMS-8801MSTR, \$34.95**

Advanced Set

Includes charts for the four advanced areas: Engine Repair, Air Conditioning, Manual Drive Train & Axles, and Automatic Transmission & Transaxle.

- **VMS-8802MSTR, \$34.95**

Call toll free
1-800-343-6430 for
additional information.



ASE Test Preparation

This comprehensive package of ASE test preparation booklets covers the tests for Automotive, Medium-Heavy Duty Truck, Collision Repair, Parts, and Advanced Engine Performance. These books are intended for any automotive technician who is preparing to take an ASE examination. Each book combines refresher materials with an abundance of sample test questions, as well as a wealth of information regarding test-taking strategies and the ASE exam style. The series includes the history of the ASE, basic statistics, how the tests are determined, who is expected to pass or fail, and scoring of the tests.

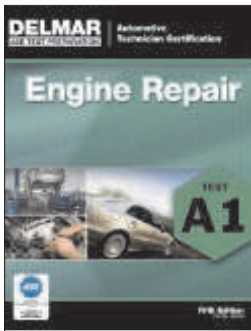
Automotive Series

Updated to the 2011 standards. Also available in Spanish. Classroom pricing available.

ASE Test Prep (C1): Service Consultant

- DR-3889X127121, \$23.95

ASE Test Prep (A1): Automotive Engine Repair



- DR-127039, \$23.95

ASE Test Prep (A2): Automotive Transmissions and Transaxles

- DR-127046, \$23.95

Medium/Heavy Duty Truck, 5E

Classroom pricing available. Newly updated. Check website for availability.

ASE Test Prep (T1): Gasoline Engines

- DR-128975, \$23.95

ASE Test Prep (T2): Diesel Engines

- DR-128982, \$23.95

ASE Test Prep (T3): Drive Train

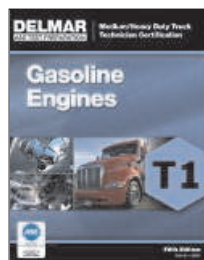
- DR-128999, \$23.95

ASE Test Prep (T4): Brakes

- DR-129002, \$23.95

ASE Test Prep (T5): Suspension and Steering

- DR-129019, \$23.95



ASE Test Prep (A3): Automotive Manual Drive Train and Axles

- DR-127053, \$23.95

ASE Test Prep (A4): Automotive Suspension and Steering

- DR-127060, \$23.95

ASE Test Prep (A5): Automotive Brakes

- DR-127077, \$23.95

ASE Test Prep (A6): Automotive Electrical-Electronics Systems

- DR-127084, \$23.95

ASE Test Prep (A7): Automotive Heating and Air Conditioning

- DR-127091, \$23.95

ASE Test Prep (A8): Automotive Engine Performance

- DR-127107, \$23.95

ASE Test Prep (A9): Light Vehicle Diesel Engines

- DR-127114, \$23.95

ASE Test Prep (L1): Automotive Advanced Engine Performance

- DR-127138, \$23.95

ASE Test Prep (P2): Automotive Parts Specialist

- DR-127145, \$23.95

ASE Test Prep (X1): Exhaust Systems

- DR-127152, \$23.95

ASE Test Prep Series: Automotive Complete Set (A1-8, C1, L1, P2, & X1)

- Save on the set: Not yet available

ASE Test Prep (T6): Electrical and Electronic Systems

- DR-129026, \$23.95

ASE Test Prep (T7): Heating, Ventilation, and Air Conditioning (HVAC) Systems

- DR-129033, \$23.95

ASE Test Prep (T8): Preventative Maintenance

- DR-129040, \$23.95

ASE Test Prep Series: Medium/Heavy Duty Truck Complete Series

- Save on the set: Not yet available

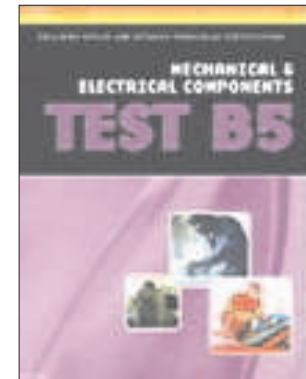
ASE Test Readiness

ASE Explained, An Introduction

Describes the certification process and outlines vital test taking skills. For automotive, truck, or collision repair testing.

- VHS: 20 minutes, BG-ASEV, \$30.00

Collision Repair/Refinish



Also available in Spanish. Classroom pricing available.

ASE Test Prep (B2): Painting and Refinishing

- DR-3664X, \$23.95

ASE Test Prep (B3): Non-Structural Analysis and Damage Repair

- DR-36658, \$23.95

ASE Test Prep (B4): Structural Analysis and Damage Repair

- DR-36666, \$23.95

ASE Test Prep (B5): Mechanical and Electrical Components

- DR-36674, \$23.95

ASE Test Prep (B6): Damage Analysis and Estimating

- DR-36682, \$23.95

ASE Test Prep Series: Collision Repair/Refinishing Complete Set

- Save on the set: DR-51207, \$98.95

Engine Performance

English & Spanish! This program teaches basic and advanced concepts of automotive engine performance. "Engine Performance" is an eight-part series that includes: Engine Basics 1 & 2, Engine Management 1 & 2, Engine Emissions 1 & 2, Diagnostic Equipment, and Troubleshooting. Each of the eight segments is further divided into six- to eight-minute, topic-driven modules—featuring authoritative explanations and detailed, high-energy graphics—and concludes with a challenging interactive quiz. This series includes a Spanish language audio track and both Spanish and English subtitle options. All content based on ASE-mandated skills.



- DVD (2 disk set): VA-0001, \$899.00

**1-800-343-6430 or website:
www.VMS-online.com**

Automotive Service DVDs

These programs created by James Duffy, author of *Modern Automotive Technology*, show the "how-to" of auto repair. Closeups and computer graphics provide extra visual emphasis. They follow the ASE competencies.

Engine Construction & Operation

Engine Fundamentals, Revised

- DVD: 21 minutes, MD-25337, \$89.95

Engine Top-End Construction, Revised

- DVD: 22 minutes, MD-25339, \$89.95

Engine Bottom-End Construction, Revised

- DVD: 29 minutes, MD-25332, \$89.95

Engine Front-End Construction, Revised

- DVD: 23 minutes, MD-25336, \$89.95

Engine Tear-down Cleaning Inspection Revised

- DVD: 25 minutes, MD-25334, \$89.95

Engine Reassembly, Revised

- DVD: 43 minutes, MD-25338, \$89.95

Cylinder Head Service, Revised

- DVD: 29 minutes, MD-25152, \$89.95

Short Block Service, Revised

- DVD: 35 minutes, MD-26308, \$89.95

Automotive Computers

Computer On-Board Diagnosis, Revised

- DVD: 19 minutes, MD-25076, \$89.95

Scanning Auto Computer Problems, Revised

- DVD: 22 minutes, MD-26253, \$89.95

Auto Computer System Operation, Revised

- DVD: 26 minutes, MD-24744, \$89.95

Auto Computer System Service, Revised

- DVD: 22 minutes, MD-25078, \$89.95

Starting, Ignition, Charging

Starting System Operation

- DVD: 24 minutes, MD-40197, \$79.95

Starting System Service

- DVD: 24 minutes, MD-40198, \$79.95

Ignition System Operation (Revised)

- DVD: 21 minutes, MD-40195, \$79.95

Ignition System Service

- DVD: 30 minutes, MD-40196, \$79.95

Using A Load Tester

- DVD: 25 minutes, MD-40199, \$79.95

Charging System Operation

- DVD: 25 minutes, MD-40193, \$79.95

Charging System Service

- DVD: 24 minutes, MD-40194, \$79.95

Chassis & Front End, Revised

Steering System Operation

- DVD: 29 minutes, MD-26374, \$89.95

Steering System Service

- DVD: 26 minutes, MD-26373, \$89.95

Brake Systems Operation

- DVD: 26 minutes, MD-24823, \$89.95

Brake System Service

- DVD: 34 minutes, MD-24822, \$89.95

Wheel Alignment Theory and Adjustment

- DVD: 27 minutes, MD-26797, \$89.95

Wheel Bearing Service: Front Wheel Drive

- DVD: 27 minutes, MD-26799, \$89.95

Wheel Bearing Service: Conventional

- DVD: 36 minutes, MD-26798, \$89.95

Suspension Systems Operation

- DVD: 17 minutes, MD-26447, \$89.95

Suspension System Service

- DVD: 17 minutes, MD-26446, \$89.95

Heating & Air Conditioning

Heating/Air Conditioning Operation

- DVD: 24 minutes, MD-5179, \$89.95

Heating/Air Conditioning Diagnosis

- DVD: 23 minutes, MD-5181, \$89.95

Heating /Air Conditioning Service

- DVD: 21 minutes, MD-5180, \$89.95

Other Automotive Systems

Lubrication Systems Operation and Service

- DVD: 27 minutes, MD-5183, \$69.95

Cooling Systems

- DVD: 27 minutes, MD-5172, \$69.95

Drive Trains

Clutch Operation and Service

- DVD: 21 minutes, MD-5185, \$79.95

Manual Transmission Operation

- DVD: 20 minutes, MD-5186, \$79.95

Automatic Transmission Operation

- DVD: 29 minutes, MD-5187, \$79.95

Differential Construction and Operation

- DVD: 24 minutes, MD-5163, \$79.95

Differential Service

- DVD: 32 minutes, MD-5159, \$79.95

CV Axles

- DVD: 24 minutes, MD-5178, \$79.95

Gas Injection & Emissions

Gasoline Injection System Service

- DVD: 27 minutes, MD-5157, \$99.95

Gasoline Injection System Operation

- DVD: 29 minutes, MD-5156, \$99.95

Emission Control Systems

- DVD: 24 minutes, MD-5184, \$79.95

Maintenance & Safety

Auto Shop Safety, Revised

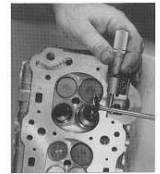
- DVD: 20 minutes, MD-24746, \$99.95

Automotive Measurement

- DVD: 33 minutes, MD-5124, \$99.95

Vehicle Maintenance & Fluid Service

- DVD: 27 minutes, MD-5121, \$99.95



Basic Car Care, 2nd Ed

- DVD: 23 minutes, MD-24764, \$99.95

Air Bag Operation & Service

- DVD: 21 minutes, MD-5188, \$99.95

Inside the Auto Technician's Toolbox

Focuses on the tools needed for both conventional and hybrid vehicles. Includes both hand tools and high-tech diagnostic instruments.

- DVD: 23 minutes, MD-37521, \$99.95

Pricing

Save by buying multiples:

- 1 - 5: List price
- 6 - 10: Mix and match, 5% discount
- 11 +: Mix and match, 10% discount

1-800-343-6430

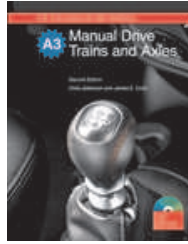
www.VMS-online.com

Automotive Service

Manual Drive Trains and Axles, 2E

An up-to-date automotive library in one easy-to-understand volume. Thorough coverage is given to fundamental operating principles, troubleshooting, service, and repair procedures. It is updated to include the latest developments in the field and reorganized to facilitate learning.

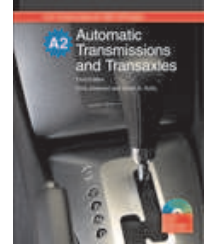
- **Text: Hardcover, 496 pages, GW-2131, \$96.00 (5 or more - \$72.00)**
- **Workbook: 228 pages, GW-2148, \$24.00 (5 or more - \$18.00)**
- **Instructor's Guide: 152 pages, GW-2155, \$90.00**
- **Instructor's Resource CD: GW-2162, \$248.00**
- **ExamView Assessment: GW-2179, \$244.00**
- **PowerPoint Presentation (Individual license): GW-2186, \$240.00**



Automatic Transmissions & Transaxles, 3E

Provides the latest information on the design, construction, diagnosis, service, and repair of automatic transmissions and transaxles. Covers both hydraulic and electronic controls.

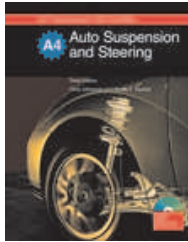
- **Text: Hardcover, 495 pages, GW-2032, \$96.00 (5 or more - \$72.00)**
- **Workbook: 192 pages, GW-2049, \$24.00 (5 or more - \$18.00)**
- **Instructor's Guide: GW-2056, \$90.00**
- **Instructor's Resource CD: GW-2063, \$248.00**
- **PowerPoint Presentation (Individual license): GW-2087, \$240.00**
- **ExamView Assessment: GW-2070, \$244.00**



Auto Suspension and Steering, 3E

Presents the knowledge and skills needed to successfully diagnose, service, and repair all types of automotive suspension & steering systems. Designed so components and operating principles are explained before troubleshooting and repair procedures are discussed. Correlated to the ASE/NATEF Task List.

- **Text: Hardcover, 478 pages, GW-2230, \$96.00 (5 or more - \$72.00)**
- **Workbook: 186 pages, GW-2247, \$24.00 (5 or more - \$18.00)**
- **Instructor's Guide: GW-2254, \$90.00**
- **Instructor's Resource CD: GW-2261, \$248.00**
- **PowerPoint Presentation (Individual license): GW-2285, \$240.00**
- **ExamView Assessment: GW-2278, \$244.00**



Auto Engine Repair, 5E

Teaches students to diagnose, service, and repair all makes and models of gasoline and diesel engines. Details how engines are constructed and operate. Correlated to the ASE/NATEF Task List.

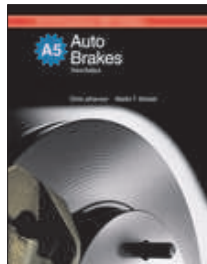
- **Text: Hardcover, 592 pages, GW-1936, \$96.00 (5 or more - \$72.00)**
- **Workbook: 280 pages, GW-1943, \$24.00 (5 or more - \$18.00)**
- **Instructor's Guide: GW-1950, \$90.00**
- **Instructor's Resource CD: GW-1967, \$248.00**
- **PowerPoint Presentation (Individual license): GW-1981, \$240.00**
- **ExamView Assessment: GW-1974, \$244.00**



Auto Brakes, 3E

Details the theory, operation, diagnosis, and service of modern brake systems. Includes anti-lock (ABS) and traction control systems (TCS). Correlated to the ASE/NATEF Task List.

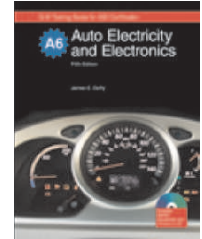
- **Text: Hardcover, 507 pages, GW-0496, \$96.00 (5 or more - \$72.00)**
- **Workbook: 202 pages, GW-8392, \$24.00 (5 or more - \$18.00)**
- **Instructor's Guide: GW-8408, \$90.00**
- **Instructor's Resource CD (with ExamView): GW-7258, \$260.00**
- **PowerPoint Presentation (Individual license): GW-7265, \$240.00**



Auto Electricity and Electronics Technology, 5E

Deals with the operation, diagnosis, and service of the electrical, electronics and computer control systems found on today's automobiles and light trucks. Correlated to the ASE/NATEF Task List.

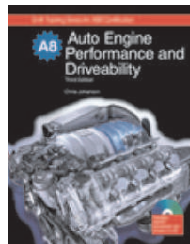
- **Text: Hardcover, 574 pages, GW-9122, \$96.00 (5 or more - \$72.00)**
- **Workbook: 315 pages, GW-9115, \$24.00 (5 or more - \$18.00)**
- **Instructor's Guide: GW-9139, \$90.00**
- **Instructor's Resource CD: GW-9153, \$248.00**
- **ExamView Assessment: GW-0519, \$244.00**
- **PowerPoint Presentation (Individual license): GW-9160, \$240.00**



Auto Engine Performance & Driveability, 3E

Up-to-date information on developing the skills to diagnose and fix driveability problems. Coverage includes OBD I & II diagnostics as well as computerized powertrain systems. Correlated to the ASE/NATEF Task List.

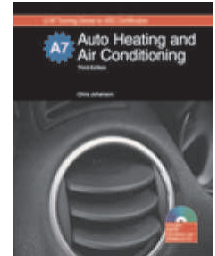
- **Text: Hardcover, 528 pages, GW-0540, \$96.00 (5 or more - \$72.00)**
- **Workbook: 235 pages, GW-0533, \$24.00 (5 or more - \$18.00)**
- **Instructor's Guide: GW-0557, \$90.00**
- **Instructor's Resource CD: GW-0564, \$248.00**
- **ExamView Assessment: GW-0571, \$244.00**
- **PowerPoint Presentation (Individual license): GW-0588, \$240.00**



Auto Heating & Air Conditioning, 3E

Text explores the area of mobile vehicle heating, ventilation, and air conditioning. Coverage includes theory and service information. Correlated to the ASE/NATEF Task List.

- **Text: Hardcover, 432 pages, GW-0502, \$96.00 (5 or more - \$72.00)**
- **Workbook: 200 pages, GW-0144, \$24.00 (5 or more - \$18.00)**
- **Instructor's Guide: GW-0151, \$90.00**
- **Instructor's Resource CD: GW-0175, \$248.00**
- **ExamView Assessment: GW-0205, \$244.00**
- **PowerPoint Presentation (Individual license): GW-0182, \$240.00**



NOTE: The **Instructor's Resource CD** includes all the instructional resources in the Instructor's Guide with test masters, answer keys, activities, etc. Each text includes a CD with ASE related job sheets.

Vehicle Voltage Drop Testing

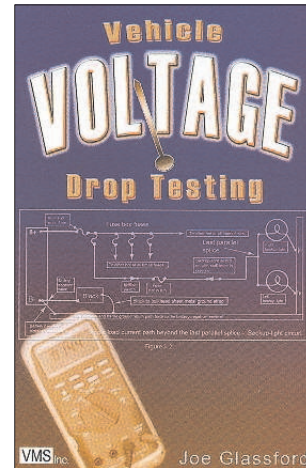
NEW!

by Joe Glassford

Students and service techs may master the basics of vehicle electricity and electronics yet are still unable to solve problems. Worse, techs find themselves unable to find the source of the problems. "Vehicle Voltage Drop Testing" gives the tech a simple, logical procedure to follow to track the source of a fault through a circuit. When these procedures are followed, the fault will be found and the service will be a success.

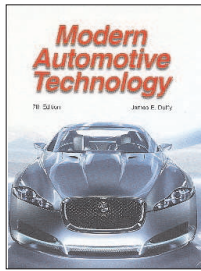
The book is an easy-to-read, step-by-step introduction to comprehensive testing procedures. It is invaluable as a classroom text as well as a resource for practicing technicians. It is well illustrated with photos, sample wiring diagrams, and circuit illustrations. The test procedures are appropriate for all vehicles – cars, trucks, ATV's, marine, and construction and ag equipment. Once understood, the basic concepts can be used on almost any vehicle.

- **Softcover, 144 pages, VMS-4673, \$31.96 (5 or more - \$23.97)**



Modern Automotive Technology, 2009 Edition

by James E. Duffy



Details the construction, operation, diagnosis, service, and repair of automobiles and light trucks. Excellent coverage is given to the latest in automotive technology, including air bags, anti-lock brakes, electronically controlled transmissions, electronic engine control, OBD II diagnostics, IM 240 testing, misfire monitoring and security systems. The text is organized around the eight ASE test areas and includes sections on using basic mathematics. Four-color artwork is used throughout. Teacher's Resource Binder contains the instructor's manual and additional materials including full-color transparencies. **Call for information on bundles.**

- **Text: Hardcover, 1613 pages, GW-9566, \$98.64**

(5 or more - \$73.98)

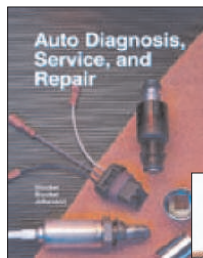
- **Workbook: 532 pages, GW-9580, \$26.64 (5 or more - \$19.98)**
- **Shop Manual: 846 pages, GW-9597, \$44.00 (5 or more - \$33.00)**
- **Instructor's Manual: Softcover, 550 pages, GW-9634, 104.00**
- **Instructor's Resource Binder: 702 pages, GW-9641, \$260.00**
- **Instructor's Resource CD: GW-9658, \$260.00**
- **ExamView Assessment: GW-9665, \$260.00**
- **Powerpoint Presentations (Individual license): GW-9689, \$260.00**

Auto Diagnosis, Service, and Repair 2003

by Martin W. Stockel, Martin T. Stockel, and Chris Johanson

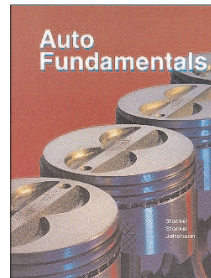
Intended for the student who needs a sound foundation in the fundamentals of automotive repair. The aim of the text is to teach the essential skills required to service, troubleshoot, and repair today's complex vehicles. Includes information on the latest developments in the field of automotive technology, including computer control, anti-lock brakes, air bags, and refrigerant recovery. A good follow-up text to Automotive Fundamentals.

- **Text: Hardcover, 1024 pages, GW-9105, \$92.00 (5 or more - \$69.00)**
- **Workbook: 400 pages, GW-9113, \$25.28 (5 or more - \$18.96)**
- **Instructor's Manual: Softcover, 450 pages, GW-9121, \$94.00**



Auto Fundamentals

by Martin W. Stockel, Martin T. Stockel, and Chris Johanson



One of the most popular automotive theory text available. Leads students through the study of design, construction, and operation of all major automotive systems. Starts with basic theory and progresses through the final system. This "building block" approach helps student gain full understanding of components and systems. Features: low reading level, starts with elementary level concepts, emphasis on safety.

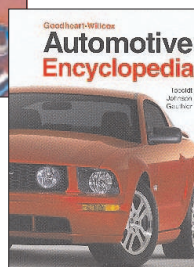
- **Text: Hardcover, 607 pages, GW-3251, \$78.00 (5 or more - \$58.50)**
- **Workbook: Softcover, 351 pages, GW-326X, \$24.00 (5 or more - \$18.00)**

- **Instructor's Manual: Softcover, 300 pages, GW-3278, \$94.00**

Call toll free 1-800-343-6430 or website: www.VMS-online.com

Automotive Encyclopedia

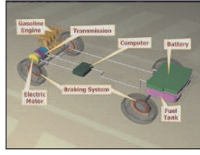
A complete, up-to-date automotive library in one easy-to-understand volume. Thorough coverage is given to fundamental operating principles, as well as troubleshooting, service, and repair procedures. The 2000 edition has been updated to include the latest developments in the field and reorganized to facilitate learning.



- **Text: Hardcover, 900 pages, GW-4223, \$90.00 (5 or more - \$67.50)**
- **Study Guide: 300 pages, GW-4231, \$26.64 (5 or more - \$19.98)**
- **Instructor's Manual: 350 pages, GW-424X, \$94.00**

History & Development

This program surveys the historical background of hybrid technology since the 1880s, introduces students to hybrid configurations currently on the road or in development, and explains the basic principles of hybrid engine propulsion.



- DVD: 20 minutes, MD-35526, \$69.95

Common Hybrid Components

Guides viewers through the system components common to hybrid autos, including the battery pack, the electric motor, the internal combustion engine, the transmission, and the generator.

- DVD: 20 minutes, MD-35527, \$69.95

Hybrid Safety Issues

Hybrid technology means cleaner air for everyone - but under the hood, it's a danger zone for unprepared technicians. This program enables students to understand and follow the unique safety requirements of hybrid engine maintenance and repair, focusing on precautions and procedures necessary to prevent electric shock.

- DVD: 20 minutes, MD-35528, \$69.95

Battery & Safety

Guides viewers through all the steps necessary to perform work on a hybrid car's batteries and electrical system.

- DVD: 18 minutes, MD-38766, \$99.95

Brakes & Service

How a hybrid car's two separate braking systems work, illustrating the differences and similarities between standard and hybrid maintenance.

- DVD: 18 minutes, MD-38767, \$99.95

Computers & Cooling Systems

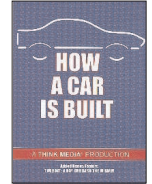
Provides a solid instructional foundation in hybrid computer and cooling system inspection, maintenance, and repair.

- DVD: 18 minutes, MD-38768, \$99.95

How They Work

How a Car Is Built

Go behind the scenes and watch the making of a Ford Mustang - from a sheet of steel until it rolls off the assembly line.



- DVD: 31 minutes, WKL-5018, \$19.95

How Your Car Works, Revised

Information on auto parts, systems, and operation. Provides vocabulary and know-how.

- DVD: 16 minutes, MD-25618, \$89.95

My Classic Car®

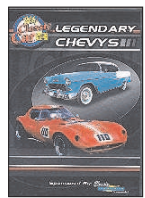
These DVDs contain a compilation of the "Greatest Hits" from Ford, Chevy, and Mopar segments from the *My Classic Car* television series spanning all seven seasons. See website www.VMS-online.com for additional titles.

Legendary Fords

The cars include GT-40, 427 Competition Cobra, Shelby Daytona Coupe, and the Battlebird, as well as Mustangs, Torinos, and Thunderbirds. Includes interviews with Carroll Shelby and Pete Brock, designer of Daytona Coupe.



- DVD: 136 minutes, MCC-5010, \$19.95



Legendary Chevys

This DVD includes the Chevy 396 Camaro, 1955 Bel Air, Corvette, 427 Impala, and Cheetah. It also has interviews with Zora Arkus-Duntov, Bill Mitchell, and David Hollis.

- DVD: 98 minutes, MCC-5011, \$19.95

Legendary Mopars

See the Dodge Daytona, Challenger 440, and Cuda, as well as an in-depth look at the development of the awesome 426 Hemi. Also includes interviews with Don Garlits, Virgil Exner, Tom Hoover.



- DVD: 87 minutes, MCC-5012, \$19.95

Inside the GM Special Vehicles Collection

See the GM private collection of historic and concept cars.

- DVD: 65 minutes, MCC-5031, \$19.95

Carley's Software

Carley CDs allow teachers another way to present basic theory and simple troubleshooting. We saw this software at an auto show then heard some teachers commenting on how good it was for the low price. Students just load, click, run.

Carley's Master (Everything) CD:

Includes all of the Carley software on one CD (ABS Guide, AC R134A Retrofit, Alignment Guide, Brake Guide, Sensor Guide, Emission Guide, FWD Guide), plus Carley's Metric Conversion Guide, Technical Library, Automotive Resource Links, and Automotive Technical Illustrations/Clipart.

- School license: CLY -0010M, \$199.95



Scan Tool Companion

A quick reference to provide guidance and troubleshooting for ALL scan tool users. Diagnose by symptom, code, or system.

- CLY-0016, \$29.95

Carley's Car Care Guide

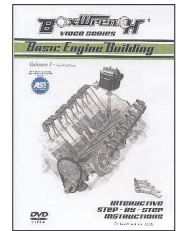
An illustrated guide to basic preventive maintenance and light repairs for the student.

- CLY-0007, \$19.95

Engine Rebuilding

Basic Engine Building

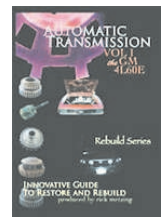
The first and only complete V-8 engine rebuild guide of its kind. Over three hours of footage take the viewer through the entire process of removing an average engine from a vehicle, disassembling it, checking the parts for correct tolerances, and then reassembling with step-by-step instructions of the entire procedure. There's even a mini-documentary that shows all the parts going through the machine shop refurbishing process. Every tool and technique is shown and a database of glossary terms and tool descriptions are included in the bonus menus of the DVD. This is the finest instructional tool for all skill levels of automotive enthusiasts and engine builders. The DVD menu lets you access any section of the material with a click of the remote.



- DVD: 210 minutes, BXW-1002, \$29.95

Auto Transmission - Rebuilding

This DVD covers the breakdown and rebuilding of the GM-4L60E automatic transmission. It covers preparation, teardown, inspection, cleaning, rebuilding, and filling procedures and driveability.

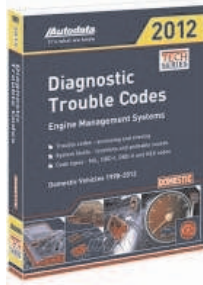


- DVD: 60 minutes, BXW-4L60E, \$39.95

1-800-343-6430 or
www.VMS-online.com

Diagnostic Trouble Codes 2012

These are the new editions of the popular Autodata books on diagnostic trouble codes. They provide invaluable information on accessing and erasing trouble codes; locations and probable causes of system faults; code types (MIL, OBD-I, OBD-II); Data Link connector locations. Completely updated to include years 1998-2012. Buy them as softcover manuals or CD. The CD also includes Systems Diagnostic Trouble Codes for ABS, Immobilizers & Transmission Systems.



Domestic Diagnostic Trouble Code Manual

- **Manual: Softcover, ADA-340, \$84.95**

Import Diagnostic Trouble Code Manual

- **Manual: Softcover, ADA-350, \$84.95**
- **CD (both Domestic, Import, & ABS, Immobilizers, & Transmissions 1994-2012): ADA-CDX340, \$215.00**

Key Programming and Service Indicators 2011

Researched from vehicle manufacturers' information, this unique manual describes how to reprogram key/remote transmitters for alarms, immobilizers and central locking and also includes the reset procedures for service interval indicator lamps. Covers 2001-2011.



- **Manual: Softcover, ADA-420, \$84.95**
- **CD (1995-2011): ADA-CDX420, \$84.95**

Tire Pressure Monitoring Systems

For domestic & import cars, vans, and light trucks. Covers: System identification; Sensor removal & replacement; Warning lamp operation; System resetting; and Tire Changing Procedures.



- **Manual: Softcover, ADA-200, \$89.95**

Timing Belts Manual

This manual contains clear, concise "removal" and "installation" instructions; vehicle manufacturers' recommended belt replacement intervals; identifies "interference" or "freewheeling" engines; provides labor times and special tools needed; includes simplified diagrams. Covers domestic and imported cars, vans, and light trucks from 1996-2011.



- **Manual: Softcover, ADA-180, \$84.95**

Timing Chains & Gears

Includes valve timing mark locations; tensioner release and reset methods; special tools; chain routing; valve timing procedures; tightening torques. Covers domestic and imported vehicles from 1997-2011.



- **Manual: Softcover, ADA-170, \$84.95**

Timing Belts and Timing Chains - CD

Contains content of both manuals - *Timing Belts and Timing Chains & Gears* - from 1996-2011.



- **CD: ADA-CDX180, \$169.00**



Technical Specifications

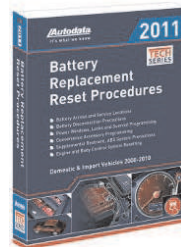
Researched from vehicle manufacturers' information, this CD provides quick access to over 100 lines of the most relevant service and repair specifications for domestic (1994-2011)

and import (1994-2011) models. Includes tuning; service checks & adjustments; lubricants and capacities; tightening torques; brake dimensions.

- **CD: ADA-CDX100, \$169.00**

Battery Replacement Reset Procedures

Covers battery access and service locations; disconnect precautions; power window, locks, & sunroof programming; accessory programming; SRS & ABS system precautions; engine and body control system resetting.



- **Manual: Softcover, ADA-500, \$89.95**
- **CD: ADACDX500, \$89.95**

Wiring Diagrams

These DVD-ROMs are sourced from OEM information. Each wiring diagram is illustrated in an easy to use and common format. A Model ID Table makes it a snap to find the correct wiring diagram for each vehicle. Covers 1994-2010, both domestic and import.



- **Engine Management System Wiring Diagrams, ADA-CDX640, \$237.00**
- **SRS/Airbag & ABS Wiring Diagrams, ADA-CDX660, \$237.00**
- **Body System, Audio/Visual & Climate Control Wiring Diagrams, ADA-CDX650, \$356.00**

Ordering Information

Guarantee

VMS wants you to be fully satisfied with your purchases. Our products (including unopened software) may be returned in new condition within 30 days for full refund, credit, or exchange. Please call for Return number. Be sure to pack carefully to avoid damage.

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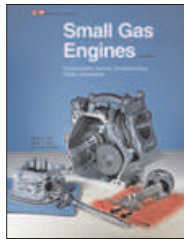
Damaged or Incomplete Shipments

Please check your orders carefully. If you find or suspect damage, contact the carrier immediately and save all packaging materials for inspection. Shortage in a shipment must be reported to VMS within 10 days.

Small Gas Engines Text

Small Gas Engines, 10th Ed by Alfred C. Roth

Provides basic information on the construction and operation of one- and two-cylinder, two- and four-cycle gas-powered engines. Detailed information on maintaining, troubleshooting, repair, and rebuilding small engines is also presented. Written in clear, nontechnical language.



Includes:

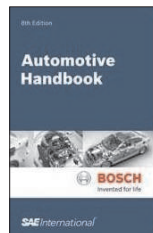
- *Logical procedures for troubleshooting and repairing all major systems.
- *Detailed illustrations that support the ideas presented.
- *Learning objectives, review questions, and activities for each chapter.
- *Safety reminders.
- *Information on applications and career opportunities.

- **Text:** 528 pages, hardcover, GW-5477, \$84.00 (5 or more - \$63.00 each)
- **Workbook:** 224 pages, GW-5491, \$24.00 (5 or more - \$18.00 each)
- **Instructor's Manual:** GW-5507, \$96.00
- **Instructor's Resource CD:** GW-5514, \$248.00
- **ExamView Assessment Suite:** GW-5521, \$244.00
- **Instructor's PowerPoint:** GW-5538, \$240.00

Bosch Training Books

Automotive Handbook, 8E

In every field there is an indispensable reference that rises above the rest. In the automotive world that reference is the *Automotive Handbook* from Bosch. This definitive encyclopedia of automotive information is both exhaustive and accessible. It is THE reference for automotive engineers, technicians, students.



Sections headings include: Materials; Joining & bonding techniques; Alternative drive, Starting, and Braking systems; Internal combustion engines; Lighting; Safety systems; Passenger car specifications; Fuel supply; and much more.

- **Hardcover:** 1265 pages, BSH-723101-8, \$46.95

**1-800-343-6430 or
www.VMS-online.com for
additional information**

Precision Measuring

Ray Oviyach mentioned to me how much trouble he had teaching students how to measure. He found he needed to have very clear printed materials in their hands so they could "see" how to do it. These sets of exercises are the result of his years of experience. Teaching how to measure is something every teacher complains about. We think these sheets will "do the trick!"

Micrometer & Vernier Caliper Reading Exercises

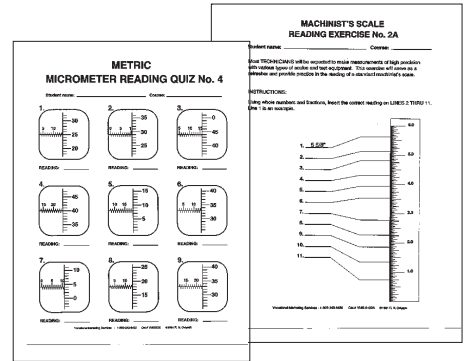
A set of review sheets and quizzes on the American Standard Vernier Caliper and the American Standard and Metric Micrometer. This packet contains 11 activity sheet masters with complete answer keys. These are ready to use for student review, quiz, or test. The package also contains 10 "cut out" models of the vernier caliper (both American and Metric versions) so that students can learn the basics of reading the vernier caliper without the danger of damaging your real shop tools. This set is an excellent and inexpensive way to introduce students to hard-to-learn concepts.

- **VMS-8500MSTR, \$34.95**

Educational Charts (Set of 16)

Labeled drawings of precision measuring tools.

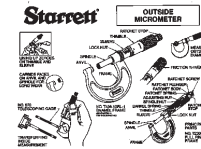
- **Individual (8.5" x 11"):** STR-1715, \$7.95
- **Wall (14.5" x 18.5"):** STR-1702, \$21.95



Basic Precision Measurement Exercises

This set of review, quiz, and test sheets covers the Machinist's Scale, both English and Metric. Each set has 21 activity sheet masters with answer keys. These sheets are totally self-contained. Students do not need to use an actual scale to complete these activities.

- **CD: VMS-8400MSTR, \$34.95**



Bosch Training Books and CD's

Automotive Electrics and Electronics, 5E

Educators, shop managers, and advanced technicians alike will appreciate the wealth of concise, easily digestible information about Bosch systems contained in this convenient book. It contains complete background on all Bosch electrical and electronic systems and is a must for anyone who follows current trends in automotive technology. It covers a wide range of in-depth topics, including: Vehicle electrical systems & circuit diagrams; Alternators; Starting systems; Lighting technology; Theft deterrence systems; Comfort and convenience systems; Information systems; Driving safety systems; Gasoline engine management.

- **Hardcover, 503 pages, BSH-723601, \$49.95**

Gasoline Direct Injection

Covers six modules: Basic Principles; System Comprehension; Outlook; System Description; Components; Calibration. Narrated modules include tables, diagrams, 3-D views, & animation.



- **CD: BSH-722900, \$35.95**

Electronically Controlled Distributor Pump

A training program on the distributor fuel injection pumps: VP30, VP37, and VP44. Covers development, functions, how they work, design.

- **CD: BSH-F019J00000, \$19.95**

Common Rail for the Passenger Car

Common rail provides low fuel consumption, low exhaust emissions, quiet running, and high mileage. Includes history and functioning of a modern, electronically controlled diesel engine.

- **CD: BSH-717210, \$19.95**

Radial Plunger Distributor Pump VP44 (VR)

How the VP44 is designed and functions with the engine control unit; how the mechanical and electronic portions work together.

- **CD: BSH-VP44CD, \$19.95**

Unit Injector (UI) and Unit Pump (UP) Systems

How the UI/UP systems operate in a direct injection diesel engine; their design and function.

- **CD: BSH-717236, \$19.95**

Diesel Glow Start Systems

Learn the functioning of a 4-stroke engine; various combustion chamber shapes and the EDC-controlled diesel engine. Familiarization with the glow start process: different components and their design and function.

- **CD: BSH-717235, \$19.95**

Diesel Pre-Tech CD

CD-based diesel training program. Contains all 11 diesel video programs on one CD. Includes visuals with narration and a review lesson for each module. Self-paced for individual learning.

- **CD: BSH-PreTech1, \$74.95**

Bosch Technical Instruction Booklets (Yellow Jackets)

These familiar yellow Technical Instruction Booklets from Bosch have long been some of the most popular automotive instructional aids. They provide a clear and concise overview of the theory of operation, component design, model variations, and technical terminology for the entire Bosch product line. Their emphasis on theory provides a solid foundation for better diagnostics and servicing. Includes a glossary of terms. They are fully illustrated with color illustrations, photos, diagrams, and charts.

Gasoline Fuel Injection



Gasoline Engine Management: Basics/Components

- Softcover, BSH-722136, \$17.00 (5 or more - \$13.60)

Emission Control for Gasoline Engines

- Softcover, BSH-722102, \$14.00 (5 or more - \$11.20)

KE-Jetronic Gasoline Fuel Injection System

- Softcover, BSH-722101, \$10.00 (5 or more - \$8.00)

L-Jetronic Gasoline Fuel Injection System

- Softcover, BSH-722160, \$10.00 (5 or more - \$8.00)

Gasoline Engine Management: Motronic Systems

- Softcover, BSH-722139, \$14.00 (5 or more - \$11.20)



Mono-Jetronic Gasoline Fuel Injection System

- Softcover, BSH-722105, \$10.00 (5 or more - \$8.00)

Ignition Systems for Gasoline Engines

- Softcover, BSH-722130, \$14.00 (5 or more - \$11.20)

Hybrid Drives, Fuel Cells & Alternate Fuels

- Softcover, BSH-722152, \$14.00 (5 or more - \$11.20)



Automotive Electric



Motor Vehicle Batteries & Electrical Systems

- Softcover, BSH-722143, \$14.00 (5 or more - \$11.20)

Automotive Lighting Technology, Windshield

- Softcover, BSH-722176, \$14.00 (5 or more - \$11.20)

Safety, Comfort & Convenience Systems

- Softcover, BSH-722150, \$10.00 (5 or more - \$8.00)

Audio, Navigation & Telematics

- Softcover, BSH-722132, \$14.00 (5 or more - \$11.20)

Automotive Microelectronics in the Vehicle

- Softcover, BSH-722122, \$14.00 (5 or more - \$11.20)

Electronic Transmission Control (ETC)

- Softcover, BSH-722127, \$14.00 (5 or more - \$11.20)

Automotive Sensors

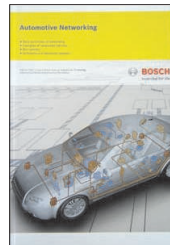
- Softcover, BSH-722131, \$19.00 (5 or more - \$15.20)

Adaptive Cruise Control (ACC)

- Softcover, BSH-722134, \$14.00 (5 or more - \$11.20)

Automotive Networking

- Softcover, BSH-722147, \$14.00 (5 or more - \$11.20)



Diesel Fuel Injection



Diesel Fuel Injection System Common Rail

- Softcover, BSH-722142, \$14.00 (5 or more - \$11.20)

Distributor-Type Diesel Fuel Injection Pumps

- Softcover, BSH-722144, \$17.00 (5 or more - \$13.60)

Diesel Inline Fuel Injection Pumps

- Softcover, BSH-722137, \$17.00 (5 or more - \$13.60)

Diesel Fuel Injection Systems: Unit Injector System (UIS) / Unit Pump System (UPS)

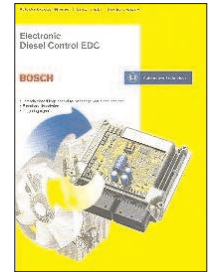
- Softcover, BSH-722172, \$14.00 (5 or more - \$11.20)

Electronic Diesel Control (EDC)

- Softcover, BSH-722135, \$14.00 (5 or more - \$11.20)

Emissions Control Technology for Diesel Engines

- Softcover, BSH-722141, \$17.00 (5 or more - \$13.60)



Driving/Road Safety

Conventional & Electronic Braking Systems

- Softcover, BSH-722103, \$17.00 (5 or more - \$13.60)

Driving Stability Systems

- Softcover, BSH-722146, \$14.00 (5 or more - \$11.20)

*** Mix or match 5 titles or more - Use Discount Price**

www.VMS-online.com for additional Bosch materials

Welding & Metalworking

TIG Welding Basics

TIG welding can make beautiful, strong welds on nearly any metal. This easy-to-follow program covers the basic processes used for TIG welding, covering proper machine setup, joint preparation, electrode selection and preparation, torch technique, and perhaps most importantly, what to check for when things go wrong!

- **DVD: 80 minutes, CVL-100021, \$40.00**



MIG Welding Made Easy

MIG Welding is widely used for car and motorcycle building and modification. This program goes through the entire MIG process step-by-step and gives clear descriptions of how various factors change the weld, including wire speed, voltage, wire stickout, gun angle, travel speed, and gas flow. Covers plug welds, patch panels,

welding aluminum, and using flux core wire. Special bonus section on Plasma Cutting!

- **DVD: 70 minutes, CVL-100022, \$40.00**

Basic Techniques for Working with Steel

Demonstrates basic hammer and dolly techniques and shows how to do high-level metalwork that requires no filler. It starts with a 1932 Morgan in very bad condition and goes through every step of perfectly restoring the body. Coverage of hole filling, patch panels, wired edge repair, rust repair, TIG welding, metal finishing, and shrinking.

- **DVD: 80 minutes, CVL-10003, \$40.00**

Shaping Aluminum with Hand Tools

Watch every step of making a track roadster nose, demonstrating techniques suitable for making virtually any body panel. He starts with a station buck defining the shape and shows clearly how the patterns are made. Watch the shaping of each piece and joining them together. Annealing, mallet and sandbag rough shaping, hammer and dolly smoothing, metal finishing, and both oxy-acetylene and TIG welding are covered in depth. If you have never seen metal shaped by hand, you may be astounded to see how simple the process is!

- **DVD: 105 minutes, CVL-10001, \$40.00**

Working with Tubing

Shows dozens of ways to work with tubing, including bending with heat, bending with both inexpensive and high-end tube bending machines, mitering, flaring, and tapering tubing. An extensive section deals with using U-bends, showing how to create anything from simple water pipes to elaborate headers. Most of the techniques use only simple shop equipment!

- **DVD: 95 minutes, CVL-10004, \$40.00**

English Wheel Techniques

How to use the English wheel, a machine notoriously difficult for beginners to "figure out." Starting with the machine's history and a clear explanation of the principles that enable the machine to move metal, Ron shows the basic "tracking" patterns that are used to shape panels of various sizes and configurations. In addition to the common techniques of wheeling, this DVD also shows some lesser-known processes, such as using a rubber top wheel and doing embossing with the machine.

- **DVD: 86 minutes, CVL-100019, \$40.00**

Agriculture Engineering

Amazing Agriculture Machines

This four-part DVD series shows ag machines in action in many parts of the world. The programs were filmed on location.

Part 1: History & Development

Covers the history and development of agricultural machines from Biblical & Roman references to the first harvesters and threshers.

- **DVD: 20 minutes, SLV-3272, \$119.00**



Part 2: Modern Machines

See the amazing diversity of tasks accomplished by modern agricultural machines. Discover how advances in precision

farming apply modern technologies.

- **DVD: 20 minutes, SLV-3276, \$119.00**

Part 3: Outdoor Power Equipment

See practically every imaginable piece of landscape machinery including highly-versatile compact tractors, trimmers, trenchers, etc.

- **DVD: 20 minutes, SLV-3279, \$119.00**

Part 4: Safety, Costs & the Operator

Students will gain an overview of the issues relating to machine costs, productivity and safety on the farm and in the landscape.



- **DVD: 20 minutes, SLV-3283, \$119.00**

- **Save on the Set of 4 DVDs: SLV-3288, \$396.00**

Fundamentals of Hydraulics & Troubleshooting

#1 Fundamentals of Hydraulics

Illustrates the fundamentals of hydraulic components and integrates them into an operating system. 3-D animation explains how circuits and components function. Includes diagnostics and troubleshooting.

- **DVD: 42 minutes, IMS-114100DVD, \$95.00**

#2 Advanced Hydraulics & Troubleshooting

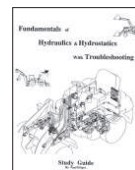
Overview of the process technicians face when troubleshooting the most common service calls on hydraulically powered equipment.

- **DVD: 52 minutes, IMS-114200DVD, \$95.00**

#3 Hydraulic Symbols & Schematics

Shows hydraulic circuits illustrated in both line art/engineering drawings and cut-away view drawings. Illustrates how symbols are used to represent hydraulic components in hydraulic schematic circuits.

- **DVD: 20 minutes, IMS-114201DVD, \$95.00**
- **Save on Parts 1-3 + Study Guide: IMS-114000DVD, \$270.00**



Fundamentals of Hydraulics & Hydrostatics with Troubleshooting

A helpful tool to promote understanding of the hydraulic fundamentals and troubleshooting principles in the DVDs.

- **Study Guide: 80 pages, IMS-114300, \$29.00**

#4 Hydrostatic Fundamentals

Produced by Case for advanced hydraulics training in heavy-duty hydrostatic-drive transmissions used in the construction industry. Design principles & troubleshooting are covered.

- **DVD: 18 minutes, IMS-203DVD, \$95.00**

#5 Hydrostatic & Hydraulic Oil Cleanliness

Shows technicians the "hows & whys" of system contamination and how to service them.

- **DVD: 20 minutes, IMS-202DVD, \$95.00**
- **Save on Parts 1-5 + Study Guide: IMS-114500DVD, \$450.00**

Tractor-Loader Safety and Training



Operating Techniques for the Tractor-Loader-Backhoe, Revised Ed

Explains how to get the maximum productivity from the TLB. How operators plan the job before work begins. How to work safely in tight situations and tackle jobs safely and effectively.

- **Softcover, 260 pages, TL-5019, \$38.00**
- **Spanish: TL-5019SP, \$38.00**

TLB Operator Safety & Worker Safety

Includes Operator Safety - covers the most common mistakes and accidents, as well as loading, transporting, utility dangers, and rollover accidents - and Worker Safety with practical guidelines for workers from other trades who work around the TLB.

- **DVD: 40 minutes, TL-0002, \$195.00**

Loader Safety and Training

Prevent accidents, save downtime, and boost operator efficiency with an organized, professional approach to these important areas of loader use: safety, maintenance, and operating techniques.



- **DVD: Introduction: 19 minutes, TL-LOD1, \$129.00**
- **DVD: Maintenance: 18 minutes, TL-LOD2, \$129.00**
- **DVD: Safety: 17 minutes, TL-LOD3, \$129.00**
- **DVD: Operating Techniques: 20 minutes, TL-LOD4, \$129.00**
- **Best deal - buy all in a set: TL-LODSET, \$395.00**

Introduction to Welding

An experienced welder offers insight and instruction on the following: basic safety and operating techniques; equipment; electrodes; and metal identification.

- **DVD: 28 minutes, CEV-0839, \$115.00**

Shielded "Stick" Metal Arc Welding - 1

An in-depth examination of safety, pre-operational inspection of equipment, and proper clothing. Provides close-up footage of nine welds (stringers; butt-, lap-, and T-welds; multi-pass fillet) performed in a flat position.

- **DVD: 45 minutes, CEV-0810, \$115.00**

Shielded "Stick" Metal Arc Welding - 2

Features on-location performance of nine welds including stringer, lap, butt, and T-Weld performed in horizontal, vertical, and overhead positions.

- **DVD: 27 minutes, CEV-0811, \$115.00**

Shielded "Stick" Metal Arc Welding - 3

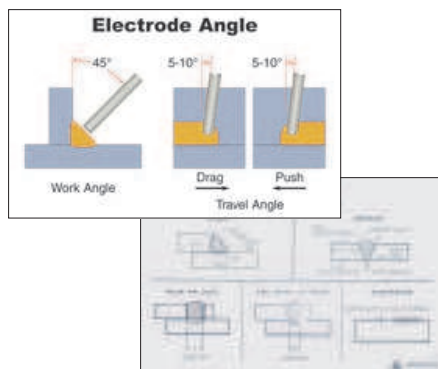
Features two methods of testing welds: guided bend and nick-break. Includes preparation of metal for test samples, performing welds, and preparation of specimens for testing.

- **DVD: 27 minutes, CEV-0818, \$115.00**

Welding Posters - Full Color

Set includes: Common Terms; Arc Length; Diagram of SMAW; Read the Puddle; Electrode Angle; Tungsten Electrode Prep; Five Essential; Five Methods of Control; Travel Speed; Fire Triangle; Fire Extinguisher Ratings.

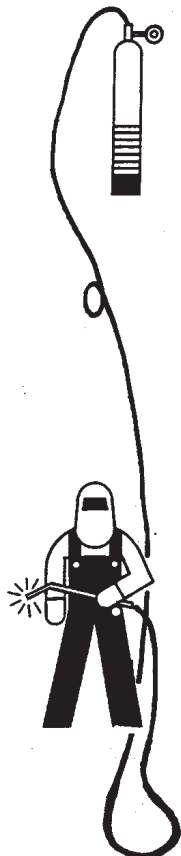
- **Set of 11 (11" x 17"):** HBT-WP11, \$30.00



Welding Posters - Blue on Gray

Cover all aspects of welding: SMAW, Types of Welds, GTAW, GMAW, FCAW, Positions, Joint Symbols, Electrodes, PAW, OAW, Good/Bad Beads, Welding Trouble, Good/Bad Welds.

- **Set of 13 (35" x 23"):** HBT-WP13, \$78.00



Gas Metal Arc Welding

Step-by-step safety procedures involved in setup and operation of the GMA (Gas Metal Arc) welder. Proper clothing, safety, and equipment. Twelve welds (including butt weld, lap weld, T-weld, lacer fillet) in both flat and vertical positions. Adjustment of shield gas flow, voltage control, and wire speed control.

- **DVD: 54 minutes, CEV-0812, \$115.00**

Oxy-Acetylene Welding: Safety & Welding

Covers all aspects of oxy-acetylene welding. Includes: set up and safety; proper care; names, purposes, installation of equipment; and demonstration of the correct and safe way to operate, including setting of working pressures.

Includes procedures for detection of leaks in cylinders and equipment. Use of reverse flow check valves to prevent back flow of acetylene and/or oxygen with procedures for checking the valves.

Proper safety, dress, and operation. Step-by-step demonstrations of turning on cylinders, setting pressures, and adjust flames. Rods and fluxes and methods for metal preparation. Welds performed include puddle, bead with a filler rod, butt-weld, lap-weld, T-weld, and outside corner-weld. Tinning (brazing) and multi-pass fillet.

Finally, it covers, safety involved in setting up and shutting down the torch and track torch, proper dress and safety equipment, and adjusting regulators to attain correct working pressures.

- **DVD: 120 minutes, CEV-80814W, \$156.00**

Welding Safety

Welding Safety NEW!!

Covers safety rules and protective equipment for MIG, TIG, arc, and gas welding.

- **DVD: 23 minutes, MD-42036, \$99.95**

Smith Equipment Oxy-Fuel Welding Safety Kit

Includes 41 minute equipment operation & safety DVD; six colorful, 17" x 24" cartoon posters on oxyfuel safety; safety test with answer key; 30 copies of a student brochure.



- **Safety Package: SE-5145, \$99.95**

- **Posters only: SE-4566, \$47.50**

Modern Welding 2004 Edition



The standard for teaching all facets of welding technology. This new, comprehensive text covers theory, fundamentals, and basic processes along with the practical applications that build skills and techniques for the welder. Includes information on reading welding symbols, inspecting

and testing welds, and welding procedures and performance qualifications.

- **Text: Hardcover, 784 pages, GW-9878, \$90.00 (5 or more - \$67.50)**
- **Lab Manual: Softcover, 392 pages, GW-9885, \$29.28 (5 or more - \$21.96)**
- **Instructor's Manual: 280 pages, Softcover, GW-9892, \$94.00**
- **Instructor's Resource Binder: GW-9908, \$200.00**
- **Instructor's Resource CD (includes Test Creation Software): GW-9915, \$260.00**

DVDs

Inside the Welder's Toolbox

Profiles the tools used to perform a variety of tasks with OFW, GMAW, GTAW, and SMAW.

- **DVD: 20 minutes, MD-37047, \$99.95**

Introduction to Oxyfuel Welding

Explains and demonstrates the careful and safe method of using the combination of acetylene and oxygen gas cylinders. Demonstrates pressure regulators, check valves, torch tubes and tips, hoses and fittings, ignition, and flame adjustment. Shows welding techniques and types of welds.

- **DVD: 14 minutes, MD-26785, \$49.95**

Introduction to Shielded Metal Arc Welding

Explains the differences between alternating current and direct current arc welding machines and shows how an electrical current melts electrodes to supply fill metal. Shows electrode and workpiece leads and electrode holders. Shows setup and shut off, safe equipment use, and the uses of shielded metal arc welding.

- **DVD: 12 minutes, MD-26786, \$49.95**

Introduction to Gas Tungsten Arc Welding

Presents safety concerns, how TIG welding differs from other types of welding. Electrode leads, hoses, regulators, collets, and post flow timer are demonstrated. Discusses the correct collet set and electrode size and type needed for the job.

- **DVD: 11 minutes, MD-26784, \$49.95**

Introduction to Gas Metal Arc Welding & Flux Core Welding

See the similarities. Learn about the different types of electrodes wires used. Wire feeders are demonstrated. How to position the electrode and establish a good weld pool. Safety practices.

- **DVD: 11 minutes, MD-25479, \$49.95**

Small Gas Engines

Small Gas Engine Construction & Operation

Basic construction of small gas engines. Live-action & computer graphics explain operation of two- & four-stroke engines. Valves-in-block vs overhead valves, gasoline vs diesel vs LP gas, air vs liquid-cooled explained.

- DVD: 27 minutes, MD-5350, \$79.95

Small Gas Engine Troubleshooting & Tune-Up

Summarizes troubleshooting of performance and mechanical problems. Logical diagnosis methods are supplemented with computer graphics to show what causes a rod knock, piston slap, low compression, more. Engine maintenance and basic tune-up included.



- DVD: 35 minutes, MD-5351, \$79.95

Small Gas Engine Disassembly

Explains the major steps for engine teardown and rebuilding. Stresses safety, part organization, and use of proper tools.

- DVD: 20 minutes, MD-5352, \$79.95

Small Gas Engine Inspection, Measurement, & Cleaning

Summarizes how to inspect each part during a major rebuild and how to find damage and measure wear accurately. Explains clearances and cleaning tools and equipment. Shows a valve job using both carbide cutters and a valve grind machine.

- DVD: 26 minutes, MD-5353, \$79.95

Small Gas Engine Reassembly

Shows how to properly reinstall the major parts. Learn to assemble both two- and four-stroke cycle engines. Emphasizes safety, proper gasket and seal installation, utilization of correct torque values and tightening patterns.

- DVD: 23 minutes, MD-5354, \$79.95

Small Gas Engines: Carburetor

This DVD covers part identification, disassembly, cleaning, repairing and reassembling of Vacu-Jet, Flo-Jet, Pulsa-Jet and vertical Pulsa-jet carburetors. The following procedures are discussed:

- Removing, adjusting and assembling of the needle valve
- Cleaning the nozzle, checking the venturi, adjusting the float and the re-assemblies of all the components of the carburetor
- Removing and replacing of the diaphragm and throttle shaft
- Checking the fuel tank for warping

- DVD: 90 minutes, CEV-80886, \$78.00

Call toll free 1-800-343-6430
or visit our website:
www.VMS-online.com

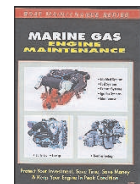
Small Engine Care & Repair

A step-by-step guide to maintaining most 4-cycle (stroke), single cylinder small engines (L-head or OHV). Includes safe handling techniques troubleshooting procedures in an easy-to-understand format.

- Softcover, 143 pages, BS-274041, \$20.20



Marine Engines



Marine Gas Engine Maintenance

Explains the workings of the marine gas engine with details on ignition, cooling, fuel, exhaust, and battery systems. Includes both maintenance and troubleshooting.

- DVD: 68 minutes, BM-H921DVD, \$29.95

Outboard Marine Engines

An excellent guide designed to explain all the external and internal components of a 2-cycle outboard marine engine. Detailed segments include a complete "hands-on" section, which explores operation, propeller selection, troubleshooting, electrical, and maintenance.

- DVD: 80 minutes, BM-H9234DVD, \$29.95

Maintaining and Servicing Your Mercury Outboard Engine

Step-by-step servicing & winterizing. For two-stroke engines 4-25hp.

- DVD: 40 minutes, BM-H4596DVD, \$29.95



"Boating" Top 60 Tips - Maintenance

Topics include winter layups, spring startups, diesel and gas engine maintenance, refinishing, waxing, electronics, general boat maintenance.

- DVD: 45 minutes, BM-H472DVD, \$34.95

Boat Maintenance

Tips on head, filters, electrical, plumbing, engine, corrosion, pumps, etc.

- DVD: 90 minutes, BM-299DVD, \$34.95



12 Volts Made Easy

A nuts and bolts primer on 12-volt marine electrical systems. Includes basic electrical theory, circuits, the battery, wiring, controls, transducers, recharging, and troubleshooting.

- DVD: 60 minutes, BM-H604DVD, \$29.95

Marine Diesel Engine Maintenance

Everything from troubleshooting to maintenance. Sections on fuel, electrical, cooling, and exhaust systems as well as the bleeding procedures for several different models of most common engines.

- DVD: 75 minutes, BM-H922DVD, \$34.95



Spring Commissioning & Winterizing your Boat

Master the techniques to protect a boat over the winter. Preserve the engine, woodwork, interior & exterior, fuel & electrical systems. Learn spring fitting-out procedures for engines, plumbing, batteries, interiors, hulls.

- DVD: BM-H9256DVD, \$40.95



Mid-Season Maintenance - Tips from a Pro

Checklist of procedures to be completed during the mid-season to keep your boat in good condition. Covers: filters, bilge, wiring, dock & anchor lines, lights, Zincs, more.

- DVD: 50 minutes, BM-H4591DVD, \$34.95

Cosmetic Gelcoat & Fiberglass

Basic Gelcoat Damage Repair & Finishing

Common repairs - scratches, gouges, chips, and small holes from moving hardware. How to match color/refinish.

- DVD: 100 minutes, BM-H905DVD, \$29.95



Stress Cracks, Air Voids, & Fractures

Repair instructions for hollow areas under the gelcoat; explains cause/repairs of stress cracks.

- DVD: 100 minutes, BM-H906DVD, \$29.95

Color Matching & Finishing

Match colors and refinish all repairs (mixing, catalyzing, spraying, and proper sanding and buffing techniques).

- DVD: 50 minutes, BM-H9056DVD, \$29.95

Save on all three DVDs: BM-COSM-Set, \$79.85

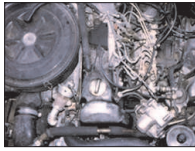
Diesel Engine

DVDs

Vehicle Lifts

Diesel Engine Service

These DVDs focus on training mechanics for mid-sized road and off-road engines. They combine live-action footage and computer animation to explain theory, operation, disassembly, service, and repair. They are structured around the ASE competencies.



Diesel Engine Operation

- DVD: 24 minutes, MD-5211, \$79.95

Diesel Engine Teardown

- DVD: 24 minutes, MD-5212, \$79.95

Diesel Cylinder Head Service

- DVD: 29 minutes, MD-5213, \$79.95

Diesel Short Block Service

- DVD: 24 minutes, MD-5214, \$79.95

Diesel Engine Reassembly

- DVD: 23 minutes, MD-5210, \$79.95

Diesel Injection System Service

- DVD: 26 minutes, MD-5215, \$79.95

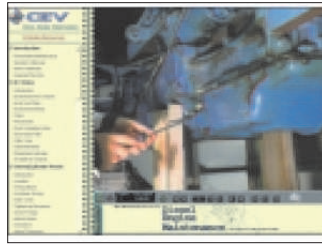
Turbocharger Service

- DVD: 22 minutes, MD-5216, \$79.95

Supercharger Service

- DVD: 25 minutes, MD-5217, \$79.95

Diesel Engines Maintenance



Previously a series of six maintenance videos, this DVD was developed for use in Ag mechanics programs. A tractor and tractor powertrain are used for demonstrations; the content is extremely thorough. They can be used in introductory Diesel or Heavy Equipment Mechanics programs. They fit nicely in classes for truck drivers, marine mechanics, and heavy equipment operators. It covers: Air Intake System and Battery; Lubrication System; Fuel System; Cooling System; & Valves and Cylinder Heads.

- DVD: 150 minutes, CEV -80819, \$195.00

Check the VMS website for Motorcycle, ATV, Marine, and Snowmobile service manuals by specific manufacturers: www.VMS-online.com

Lifting It Right

Hosted by Richard and Kyle Petty

A comprehensive and enjoyable safety training package on how to work safely on and around vehicle lifts. The package consists of a DVD, safety manual, and posttest with a key developed by the Automotive Lift Institute. Students will learn important terminology, lift components, lift operation, vehicle positioning, and safety while working on and around vehicles that are on a lift. In addition, they will learn how to read the vehicle and manufacturer's labels to determine compatibility. DVD runs 24 minutes.

- Kit (DVD, Manual, Test): ALI-0010, \$79.00
- Extra Student Manuals (Package of 5): ALI-0020, \$35.00

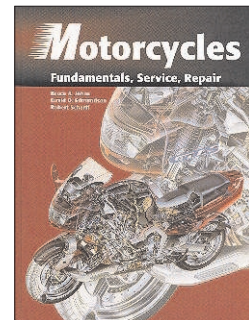


Motorcycle TEXT

Motorcycles: Fundamentals, Service, Repair

By Bruce A Johns, David D Emundson, & Robert Scharff

Covers the important aspects of the operation,



construction, design, testing, maintenance, and repair of motorcycle systems and components. Also includes information on ATVs and small scooters/mopeds. Content is written in non-technical language with step-by-step procedures to assist learning. Chapters on safety, environmental protection.

- Text: Hardcover, 560 pages, GW-4790, \$73.28 (5 or more - \$54.96)
- Workbook: 222 pages, GW-4804, \$22.64 (5 or more - \$16.98)
- Instructor's Manual: 158 pages, GW-4812, \$90.00

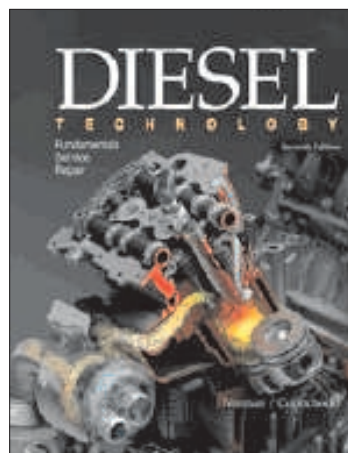
Diesel Text

Diesel Technology 2007

by Andrew Norman and John Corinchock

Provides up-to-date instruction on the construction, operation, service, and repair of two- and four-stroke diesel engines. Coverage ranges from the fundamentals of diesel operation to the latest developments in diesel technology, including engine control computers, fuel management, and emission control systems. Content applies to on- and off-road vehicles, marine, agricultural, and industrial applications. Designed to prepare students for ASE tests.

- Text: 672 pages, GW-7702, \$82.64 (5 or more - \$61.98)
- Workbook: Softcover, GW-7710, \$22.64 (5 or more - \$16.98)
- Instructor's Manual: 253 pages, GW-7729, \$94.00



Auto Body Repair

Collision Repair

Auto Body Series

This 12-part series offers a complete crash course on how to make damaged vehicles look new again. Ideal for introducing, reinforcing, and reviewing essential body shop practices, procedures, tools, and techniques. Safety is stressed.

Each program starts with a demonstration of the proper tools and preparations and then follows an apprentice technician through the job at hand. Key technical points are thoroughly explained.

Each 16-24 minute program includes a comprehensive teacher's guide with learning objectives, a program summary, educational standards, vocabulary, trivia questions, discussion and assessment questions, student activities, and resources.

Auto Body Repair Basics

Introduces basic repair concepts, safety procedures, and NADA service ethics. A wide range of tools is presented, and the metalworking and refinishing areas of a typical shop are shown.

- DVD: MD-32775, \$89.95

Auto Construction

It is easier to understand how to repair and rebuild cars after you have seen them being put together. This video travels to an automobile factory to take a look at front end assemblies, suspensions, major panels and components, and eight different types of frames.

- DVD: MD-32776, \$89.95

Welding

This video puts safety first as it explains how to use a MIG (GMAW) welder. Weld types, welder setup, destructive tests, and general welding techniques are covered. The causes of contact burnback, incomplete fusion, and other problems are identified.

- DVD: MD-32777, \$89.95

Dings and Scratches

Most auto body repairs fall under the category of minor damage: dents and dings too big to fill, but too small to need a new panel. This program shows how to assess sheet metal damage, plan and perform repairs, and refinish surfaces. A slide hammer dent puller, weld-on pulling tool, body hammer and dolly, and other tools of the trade are demonstrated.

- DVD: MD-32778, \$89.95

Replacing and Adjusting Panels

The program describes how to inspect, remove, replace, and then align to manufacturer specs an assortment of non-structural body panels. Related hardware and assemblies are also covered.

- DVD: MD-32779, \$89.95

Structural Analysis and Damage Repair

Repair, replace, or total? This program gives an overview of how to analyze the extent of major automobile damage. Repair techniques for those vehicles worth restoring are described. Air chisels, sport weld cutters, drills, and saws are demonstrated.

- DVD: MD-32781, \$89.95

Body Alignment

A skilled auto technician has to be a good detective, too. This program explains how to use tire clues and other evidence to identify and then fix misalignments of unitized and conventional frames, including diamond, twist, sag, and sway damage. Adjustments to steering systems and tires/wheels are also addressed.

- DVD: MD-32780, \$89.95

Plastics and Adhesives

Working with plastics and adhesives is tricky – and can be dangerous, too. This program shows how to safely prepare, fix, and refinish holes in fiberglass and plastics with thermoplastic and thermoset plastic. Repairing plastic parts with urethane and epoxy adhesives is also illustrated.

- DVD: MD-32782, \$89.95

Electrical Repairs

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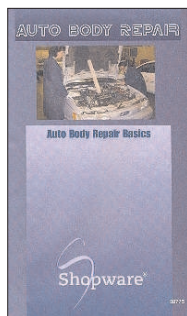
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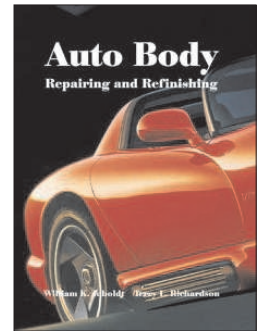
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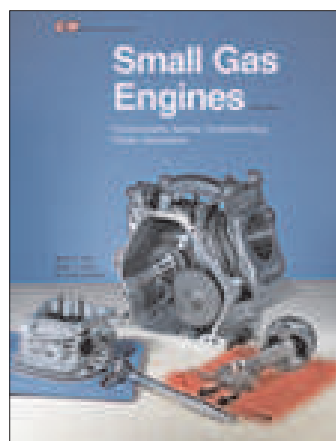
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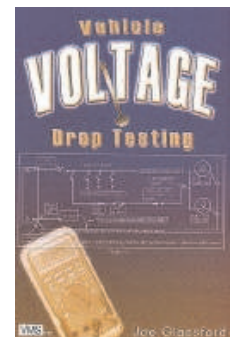
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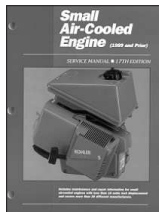


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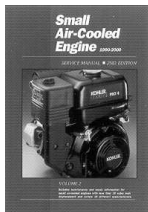
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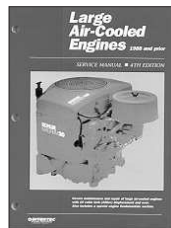


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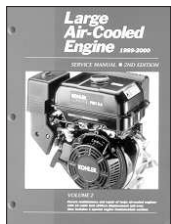
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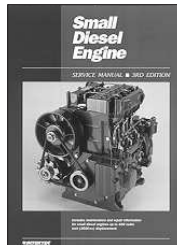
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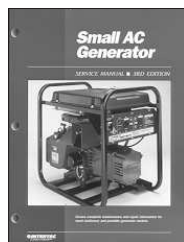
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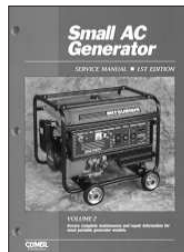


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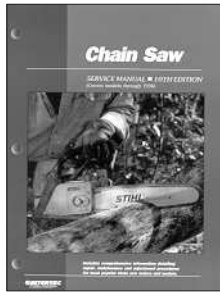
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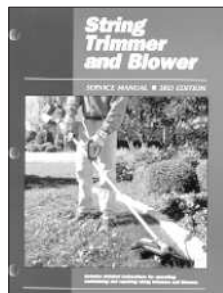
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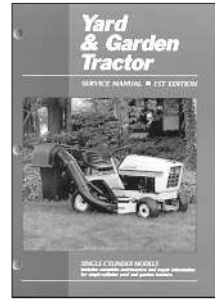
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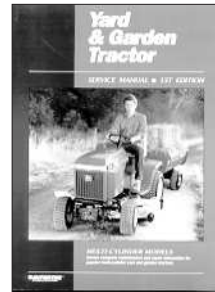
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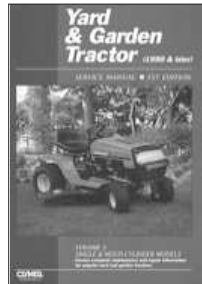


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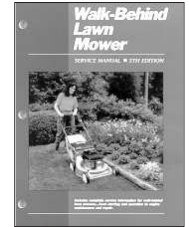
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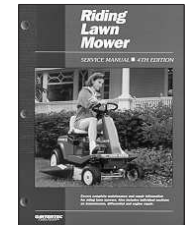
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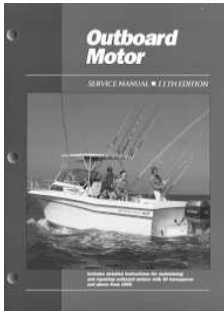
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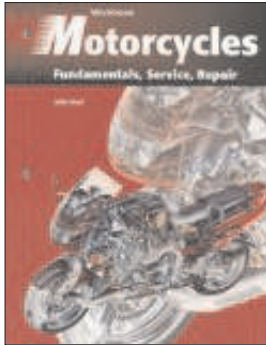
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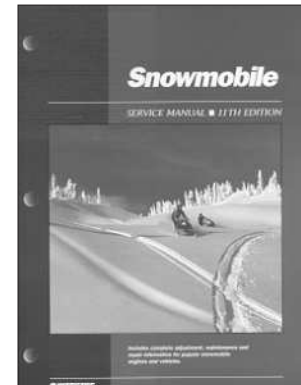
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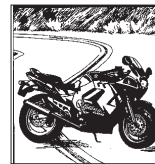
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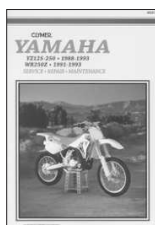
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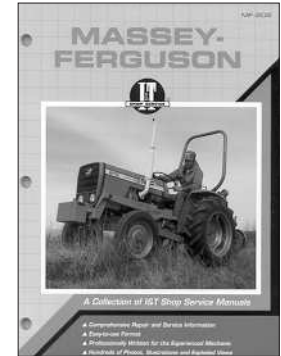
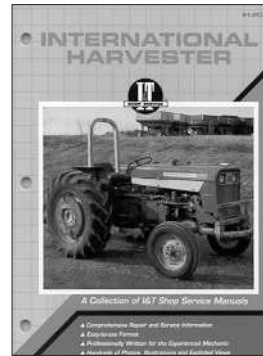
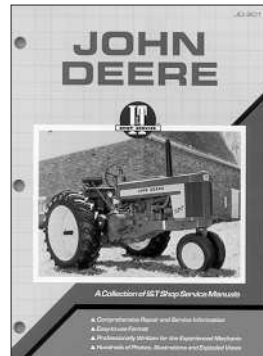
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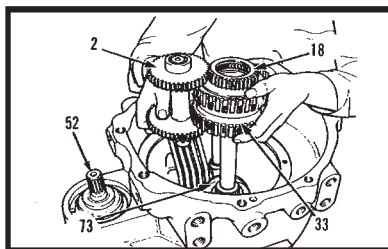
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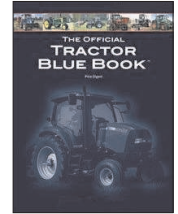
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