

Today's Technician Automotive Service Classroom

The newest edition of this classroom and shop manual set continues to provide unsurpassed coverage of the theory and procedures for automotive electricity and electronics. Streamlined diagnostic and service procedures and added attention to data bus networks, including the CAN, LIN, ISO, and other common systems, are highlighted in this revision. Expanded coverage of vehicle accessory systems includes the new multi-stage air bag systems, weight classification systems, side air bag systems, and laser guided cruise control systems. An all-new chapter on hybrid and high voltage systems is also featured. The newest edition of this classroom and shop manual set continues to provide unsurpassed coverage of the theory and procedures for automotive electricity and electronics. Streamlined diagnostic and service procedures and added attention to data bus networks, including the CAN, LIN, ISO, and other common systems, are highlighted in this revision. Expanded coverage of vehicle accessory systems includes the new multi-stage air bag systems, weight classification systems, side air bag systems, and laser guided cruise control systems. An all-new chapter on hybrid and high voltage systems is also featured. Resource added for the Automotive Technology program 106023.

Whether you're an aspiring automotive professional, preparing for ASE certification, or already working in the field, TODAY'S TECHNICIAN: AUTOMOTIVE

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ELECTRICITY & ELECTRONICS, Seventh Edition, will equip you to confidently understand, diagnose, and repair electrical and electronic systems in today's automobiles. The text's unique two-volume approach helps you make the most of your time in both the classroom and the auto shop. The first volume (Classroom Manual) covers the theory and application of electricity, electronics, and circuitry in modern automobiles, while the second (Shop Manual) focuses on real-world symptoms, diagnostics, and repair information. In addition to comprehensive coverage, accurate and up-to-date technical information, and hundreds of detailed color illustrations and photographs, the Seventh Edition features extensive updates with information on new and emerging technologies and techniques. Highlights include coverage of telematic systems, LED and adaptive lighting, hybrid and electric vehicles, stop/start technology, lane departure warning, self-park systems, Wi-Fi connectivity, and other modern accessory systems. The new edition also aligns with the ASE Education Foundation 2017 accreditation model and includes job sheets correlated to all MLR, AST, and MAST tasks.

Give your students a competitive edge in the automotive industry by preparing them with this updated classroom/shop manual set that explores the basic theories of operation behind each automotive system and the diagnostic, testing, and repair procedures that relate to them. Assuming no prior knowledge of automotive technology, the book addresses fundamental skills, maintenance and the application of the key

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theories in a manner that is both clear and engaging for students of all levels. This exciting new edition includes increased usage of metric measuring instruments, expanded information on brakes, including Active Braking systems and their link to Active Suspension systems, and enhanced coverage of electronic stability and electronic power steering, including four-wheel steering. This all-new content is built into the book using the same solid foundation of knowledge that its previous editions are known for, making TODAY'S TECHNICIAN: BASIC AUTOMOTIVE SERVICE & SYSTEMS, 4TH EDITION a teaching tool that you won't want to go without. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

TODAY'S TECHNICIAN: ADVANCED AUTOMOTIVE ELECTRONIC SYSTEMS, is an extension of the popular Today's Technician Series that covers all mechanical and electrical systems of automobiles and light trucks. This book is intended for a course in advanced automotive electronic systems and is divided into two volumes: a Classroom Manual and a Shop Manual that separate cognitive and performance learning objectives, respectively. The design is based on features that are known to promote improved student learning. The Classroom Manual contains the principles of operation for the most advanced electrical systems used today and covers design variations of components used by the different vehicle manufacturers. The book builds upon basic facts and theories and will help develop students' knowledge through its extensive coverage of component

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and system operation. The Shop Manual covers the diagnostic processes for proper repairs and focuses more on the diagnostics of the components used within a system than on how to replace the component. The intent is to guide your students' thought processes toward finding the root cause of the problem, concentrating their attention on becoming a diagnostician and not a parts changer. Your students will learn how to develop a systematic approach to problem solving in order to isolate the root cause of the problem, thereby enhancing their ability to fix products right the first time. Photo Sequences are used to illustrate some of the common diagnostic procedures. Both Manuals are arranged in corresponding chapters, and topics within the chapters are linked between manuals by page references in the margins. Both volumes contain clear and thoughtfully-selected photos and illustrations. The margins of the pages include many special features of the series that are designed to underscore important points made in the running text, highlight safety concerns, and offer real world scenarios that the author has encountered in the shop. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Part of an integrated, two-book set that covers theory and hands-on content in separate Classroom and Shop Manuals, this Classroom Manual allows students to learn fundamental climate control theory before applying their knowledge through practical, hands-on automotive work using the Shop Manual.

Equips readers to confidently understand, diagnose, and

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repair electrical and electronic systems in today's automobiles. Using a unique two-volume approach to optimize learning in both the classroom and the auto shop, the first volume.

The 6th Edition of TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE PERFORMANCE is a comprehensive learning package designed to build automotive skills in both classroom and shop settings. Following current NATEF criteria, this two-manual set examines each of the major systems affecting engine performance and driveability—including intake and exhaust, sensors, computerized engine controls, fuel ignition, and emissions. The Classroom Manual addresses system theory, while a coordinating Shop Manual covers tools, procedures, diagnostics, testing, and service. This edition includes updates to the latest technologies to take automotive technician training to new levels. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Succeed in the course, your future career, and the ASE A3 Manual Drive Train and Axles certification test with TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS & TRANSAXLES, 6e. You'll find practical, easy-to-understand coverage of a wide range of must-know topics that adhere the 2013 ASE Education Foundation AST/MAST program standards, including dual clutch systems, various limited-slip differential designs, six-speed transmissions, safe work practices, and more.

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Volume I, the Classroom Manual, covers every topic on the ASE A3 Manual Drive Train and Axles certification test, while Volume II, the Shop Manual, includes job sheets that get you involved in performing hands-on service and repair tasks. In addition, detailed full-color photos show you what to expect when performing a procedure on the job. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Classroom Manual details the theory and application of electricity, electronics, and circuitry in modern automobiles.

This two-volume set, consisting of a theory-based Classroom Manual and corresponding Shop Manual, provides users with a complete introduction to automotive engine repair and rebuilding. The theory, diagnosis and repair of engine operating systems, intake and exhaust systems, cylinder heads, camshafts, valve trains, cylinder blocks, and today's high-performance engines are covered in detail throughout. In response to industry trends, this edition features greater emphasis on overhead cam (OHC) and dual overhead cam (DOHC) systems, including replacing timing belts on DOHC engines and servicing engines with variable camshaft timing and lift. Discussion of the theory of engine operation has also been expanded to include alternate power systems, such as hybrid vehicles, fuel cells, and the

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latest electronic ignition (IE) systems. In addition, Job Sheets have been added at the end of each chapter in the Shop Manual to provide opportunities for hands-on practice of must-know procedures. TODAY'S TECHNICIAN: AUTOMOTIVE HEATING & AIR CONDITIONING, Fifth Edition, is an integrated, two-book set that covers theory and hands-on content in separate Classroom and Shop Manuals. This innovative approach allows you to learn fundamental climate control theory, including basic physics related to heat transfer, before applying your knowledge through practical, hands-on shop work. Cross-references in each manual link related material, making it easy to connect book learning to lab and shop activity. Updated to reflect the latest trends, technology, and relevant NATEF standards, the Fifth Edition includes new material on next-generation refrigerants such as HFO-1234yf, as well as a bold, full-color design for enhanced reader appeal. This up-to-date, technically accurate guide is a valuable resource for students and professionals seeking ASE certification, or anyone interested in the principles, components, diagnosis, and repair of modern automotive heating and air conditioning systems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Automotive practical worksheets and assessments for students at Level 1 This Level 1 Student

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Worksheets book contains tasks that help you develop practical skills and prepare you for assessment. The tasks also reinforce the automotive theory that you will learn online and in the classroom. Each worksheet covers individual topics in a step-by-step manner, detailing how to carry out all of the most important tasks contained within the syllabus. Alongside each of these worksheets is a job card that can be filled in and used as evidence towards your qualification. Endorsed by the Institute of the Motor Industry for all of their Level 1 automotive courses. Step-by-step guides to the practical tasks required at all Level 1 qualifications. Job sheets for students to complete and feedback sheets for assessors to complete.

Updated to reflect the latest trends, technology, and relevant ASE Education Foundation standards, this integrated, two-book set covers theory and hands-on content in separate Classroom and Shop Manuals. This innovative approach allows students to learn fundamental climate control theory, including basic physics related to heat transfer, before applying their knowledge through practical, hands-on shop work. Cross-references in each manual link related material, making it easy to connect classroom learning to lab and shop activity. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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This text covers both the theory and procedures related to the diagnosis and service of automotive suspension and steering systems, using a unique two-volume approach to optimize learning in both the classroom and the auto shop. The first volume (Classroom Manual) details the theory and application of suspension and steering systems, while the second (Shop Manual) covers real-world symptoms, diagnostics, and repair information. Known for its comprehensive coverage, accurate and up-to-date details, and abundant illustrations, the text is an ideal resource to prepare for success as an automotive technician or pursue ASE certification. Now updated with extensive information on new and emerging technology and techniques—including hybrid and electric vehicles, tire plus sizing, and computer-controlled suspensions—the Sixth Edition also aligns with area A4 of the ASE Education Foundation 2012 accreditation model, including job sheets correlated to specific AST and MAST tasks. Ideal for aspiring and active automotive professionals, TODAY'S TECHNICIAN: AUTOMOTIVE SUSPENSION & STEERING SYSTEMS, Sixth Edition, equips readers to confidently understand, diagnose, and repair suspension and steering systems in today's automobiles. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook

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version.

Ideal for aspiring and active automotive professionals, **TODAY'S TECHNICIAN: AUTOMOTIVE ELECTRICITY & ELECTRONICS**, Sixth Edition, equips readers to confidently understand, diagnose, and repair electrical and electronic systems in today's automobiles. Using a unique two-volume approach to optimize learning in both the classroom and the auto shop, the first volume (Classroom Manual) details the theory and application of electricity, electronics, and circuitry in modern automobiles, while the second (Shop Manual) covers real-world symptoms, diagnostics, and repair information. Known for its comprehensive coverage, accurate and up-to-date technical information, and hundreds of detailed illustrations and vibrant photographs, the text is an ideal resource to prepare for success as an automotive technician or pursue ASE certification. Now updated with extensive information on new and emerging technology and techniques—including audio and infotainment systems, LED and adaptive lighting, hybrid and electric vehicles, and accessory systems—the Sixth Edition also aligns with the NATEF 2012 accreditation model, including job sheets correlated to specific AST and MAST tasks. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Gain a competitive edge in the automotive industry with this updated classroom/shop manual set that explores the basic theories of operation behind each automotive system and the diagnostic, testing, and repair procedures that accompany them. Assuming no prior knowledge of automotive technology, the book addresses fundamental skills and maintenance, as well readers of all levels and backgrounds. This exciting new edition includes increased usage of metric measuring instruments, expanded information on brakes, including Active Braking systems and their link to Active Suspension systems, and enhanced coverage of electronic stability and electronic power steering, including four-wheel steering. This all-new content is built into the strong foundational knowledge that its previous editions are known for, making TODAY'S TECHNICIAN: BASIC AUTOMOTIVE SERVICE & SYSTEMS, 4TH EDITION a resource that you won't want to be without. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The best-selling book/shop manual package in our landmark Today's Technician series, the third edition of Automotive Electricity and Electronics continues to equip its readers with the most in-depth discussion of basic theory, safety, tools, and major automotive electrical/electronic systems (e.g., charging, starting, ignition, lighting, accessories, instruments, and computers) available anywhere! In response to user feedback, we've added more information about voltage, current, and resistance in order to aid readers who are new to this area of study in visualizing electrical/electronic principles at work. We've also increased our emphasis on developing the future technician's ability to use manufacturers' service information, given more prominence to diagnostic methods in the discussion of troubleshooting, and updated our coverage of testing equipment and OBD II. Perhaps most importantly,

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we've added many all-new examples to guide readers, step-by-step, to complete mastery of all of the electrical/electronic knowledge plus hands-on diagnostic and troubleshooting skills they need to become highly skilled automotive technicians. Helpful cross-references between theory discussed in the book and step-by-step procedures outlined in the shop manual are also included for optimal learning effectiveness.

AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR (AM&LR) was designed to meet the needs of automotive programs that teach to the competencies specified in NATEF's Maintenance & Light Repair (MLR) program standard. Designed for entry-level students, the primary features of AM&LR are the focus on the foundational principles and knowledge for the MLR tasks, and the activities to supplement student learning. In addition, Automotive Maintenance and Light Repair is written to engage students not just in automotive competencies, but also in applied academic skills and lifelong learning skills, including math, science, and communication. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Classroom Manual explores the basic theories of operation behind each automotive system.

Auto Repair For Dummies, 2nd Edition (9781119543619) was previously published as Auto Repair For Dummies, 2nd Edition (9780764599026). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. The top-selling auto repair guide--400,000 copies sold--now extensively reorganized and updated Forty-eight percent of U.S. households perform at least some automobile maintenance on their own, with women now accounting for one third of this \$34 billion automotive do-it-yourself market.

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For new or would-be do-it-yourself mechanics, this illustrated how-to guide has long been a must and now it's even better. A complete reorganization now puts relevant repair and maintenance information directly after each automotive system overview, making it much easier to find hands-on fix-it instructions. Author Deanna Sclar has updated systems and repair information throughout, eliminating discussions of carburetors and adding coverage of hybrid and alternative fuel vehicles. She's also revised schedules for tune-ups and oil changes, included driving tips that can save on maintenance and repair costs, and added new advice on troubleshooting problems and determining when to call in a professional mechanic. For anyone who wants to save money on car repairs and maintenance, this book is the place to start. Deanna Sclar (Long Beach, CA), an acclaimed auto repair expert and consumer advocate, has contributed to the Los Angeles Times and has been interviewed on the Today show, NBC Nightly News, and other television programs. TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, 5th Edition delivers the theoretical and practical knowledge you need to repair and service modern automotive engines and prepare for the Automotive Service Excellence (ASE) certification exam. Designed around National Automotive Technicians Education Foundation (NATEF) standards, this system-specific text addresses engine construction, engine operation, intake and exhaust systems, and engine repair, as well as the basics in engine rebuilding. Move your career forward with discussions about advancements in hybrid technology, factors affecting engine performance, and the designs and functions of modern component parts. Long known for its technical accuracy and concise writing style, TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, 5th Edition revs up your reading experience with realistic line drawings, detailed

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photos, critical thinking questions, and much more! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, CLASSROOM MANUAL AND SHOP MANUAL, Sixth Edition, delivers the theoretical and practical knowledge technicians need to repair and service modern automotive engines and prepare for the Automotive Service Excellence (ASE) Engine Repair certification exam. Designed to address all ASE Education Foundation standards for Engine Repair, this system-specific text addresses engine construction, engine operation, intake and exhaust systems, and engine repair, as well as the basics of engine rebuilding. Forward-looking discussions include advances in hybrid technology, factors affecting engine performance, and the design and function of modern engine components. Long known for its technical accuracy and concise writing style, the Sixth Edition of this reader-friendly text includes extensive updates to reflect the latest ASE Education Foundation standards, new information on current industry trends and developments, additional drawings and photos, and a variety of electronic tools for instructors. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Readers will learn what it takes to succeed as an auto technician. The book also explains the necessary educational steps, useful character traits, potential hazards, and daily job tasks related to this career. Sidebars include thought-provoking trivia. Questions in the backmatter ask for text-dependent analysis. Photos, a glossary, and additional resources are included.

As today's cars continue to become more

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complicated and complex, the cost to repair them has continued to climb. However, with some basic knowledge and a little know-how, many of the most expensive repairs can be avoided by simple, regular maintenance, or relatively inexpensive repairs that can be done with a few tools and step-by-step instructions. Car expert, Dave Stribling, has seen every repair in the book, and in *Idiot's Guides: Auto Repair and Maintenance*, he arms readers with the knowledge they'll need to troubleshoot and diagnose common problems and make simple repairs that are universal to most makes and models. Dozens of step-by-step, full-color photos and illustrations make DIY car repairs and maintenance so much easier. When the repair calls for an expert the time comes to take the car to the shop, Dave arms readers with the knowledge they'll need to make the right choices, to avoid unnecessary repairs, and to minimize the possibility of getting ripped off.

The 5th edition of **BASIC AUTOMOTIVE SERVICE & SYSTEMS** is a comprehensive Classroom Manual/Shop Manual set provides an accessible overview of automotive systems to prepare you for all aspects of work in the field. The Classroom Manual explores the basic theories of operation behind each automotive system, while the Shop Manual covers the hands-on diagnostic, testing, and repair procedures that relate to them. Assuming no prior knowledge of automotive technology, this clear

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and engaging book addresses fundamental skills and maintenance and the application of key theories. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Sixth Edition of BASIC AUTOMOTIVE SERVICE & SYSTEMS includes a Classroom Manual and a Shop Manual to provide a comprehensive, accessible overview of automotive systems to prepare readers for all aspects of work in the field. Updated to align with Task Lists for the latest ASE Education Foundation requirements, the Sixth Edition covers emerging technologies such as hybrid vehicles and electronic engine controls, as well as current information on the global automotive industry and the role of the technician within it. The Classroom Manual explores the theories of operation behind each automotive system, while the Shop Manual covers relevant diagnostic, testing, and repair procedures. Assuming no prior knowledge of automotive technology, these clear and engaging resources combine to provide a thorough introduction to both fundamental theory and its real-world applications in specific skills and maintenance procedures. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The theory and service of modern automotive

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engines is at the heart of this new edition. It includes practical information on variable valve timing systems, hybrid and other advanced technology vehicles, plus more engine performance diagnostic information and current NATEF content.

Unsurpassed in coverage of the theory and procedures for automotive electricity and electronics, the newest edition of this highly successful classroom and shop manual is guaranteed to instill both the knowledge and skills critical to success in the industry. TODAY'S TECHNICIAN:

AUTOMOTIVE ELECTRICITY & ELECTRONICS, 5TH EDITION has been updated to offer a more streamlined presentation of diagnostic and service procedures, as well as additional attention to data bus networks, including the CAN, LIN, ISO, and other common systems. The book also features expanded coverage of vehicle accessory systems, including the new multi-stage air bag systems, weight classification systems, side air bag systems, and laser-guided cruise control systems. An all-new chapter on hybrid and high voltage systems rounds out the up-to-date content, ensuring readers gain a strong working knowledge that of the latest industry trends and technologies. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Gain a competitive edge in the automotive industry

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with this updated classroom/shop manual set that explores the basic theories of operation behind each automotive system and the diagnostic, testing, and repair procedures that accompany them. Assuming no prior knowledge of automotive technology, the book addresses fundamental skills and maintenance, as well readers of all levels and backgrounds. This exciting new edition includes increased usage of metric measuring instruments, expanded information on brakes, including Active Braking systems and their link to Active Suspension systems, and enhanced coverage of electronic stability and electronic power steering, including four-wheel steering. This all-new content is built into the strong foundational knowledge that its previous editions are known for, making TODAY'S TECHNICIAN: BASIC AUTOMOTIVE SERVICE & SYSTEMS, International Edition a resource that you won't want to be without.

This set of up-to-date Classroom and Shop Manuals prepares the new automotive student for routine repairs that are usually performed by entry-level technicians. Each chapter (in each manual) is devoted to a specific system of the automobile and is highlighted by contemporary photographs. General topics such as tools and safety are also included. The Classroom Manual clearly explains the application of the theory behind each automotive system. The Shop Manual, correlated to match the

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Classroom Manual, features detailed diagnostic, testing, and repair procedures. The student is exposed to the different types of automotive businesses from manufacturers, dealers, and independent shops to aftermarket vendors and specialty stores.

The Seventh Edition of TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE PERFORMANCE is a comprehensive learning package designed to build automotive skills in both classroom and shop settings. Following current ASE Education Foundation criteria, this two-manual set examines each of the major systems affecting engine performance and drivability—including intake and exhaust, sensors, computerized engine controls, fuel, ignition, and emissions. The Classroom Manual addresses system theory, while a coordinating Shop Manual covers tools, procedures, diagnostics, testing, and service. The new Seventh Edition features updates to cover the latest automotive technologies and take automotive technician training to new levels. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The 6th Edition of TODAY'S TECHNICIAN: AUTOMOTIVE BRAKE SYSTEMS is a comprehensive text that equips readers to confidently understand, diagnose, and repair today's brake systems. Using a unique two-volume approach,

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the first volume (Classroom Manual) details the theory and application of the total brake system, subsystem, and components, while the second (Shop Manual) covers real-world symptoms, diagnostics, and repair information. Known for its comprehensive coverage, accurate and up-to-date details, and abundant illustrations, the text is an ideal resource to prepare for success as an automotive technician or pursue ASE certification. Now updated with extensive information on new and emerging technology and techniques—including hybrid vehicles, brake by wire, and electric brakes—the Sixth Edition also aligns with the NATEF 2012 accreditation model, including job sheets correlated to specific AST and MAST tasks. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Today's Technician: Basic Automotive Service and Systems, Classroom Manual and Shop Manual Cengage Learning The Shop Manual covers relevant diagnostic, testing, and repair procedures.

This brand new title in the Today's Technician Series covers the advanced topics of drivability, emissions testing, and engine diagnostics in depth. This new book features a thorough study of On-Board-Diagnostic generation II (OBD II) Continuous Monitors and Non-Continuous Monitors strategies, a chapter on Emission Control and Evaporative Systems, OBD II generic Diagnostic Trouble Codes identification and diagnosis, and Malfunction Indicator Light Strategies. Advanced use of On-Board Diagnostic Scanners and Digital Storage Oscilloscopes is also discussed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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