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Auto Upkeep: Basic Car Care, Maintenance, and Repair

By Michael E. Gray and Linda E. Gray



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This 3rd Edition (c) 2013 has been updated and is now in FULL COLOR! Auto Upkeep is an introductory automotive book that provides the fundamental knowledge and experience in owning and maintaining an automobile. From choosing an insurance policy to performing basic maintenance and repair, Auto Upkeep is the do-it-yourself automotive guide for the driver in you. Auto Upkeep helps keep you safe and your vehicle reliable by providing easy-to-follow information with detailed pictures and drawings. Discover how to choose a quality repair facility, buy a car, handle roadside emergencies, diagnose common problems, and communicate effectively with technicians all while saving money. For the full experience, purchase the Auto Upkeep textbook and workbook.

Chapters

1. Introduction and How Cars Work
2. Buying an Automobile
3. Automotive Expenses
4. Repair Facilities
5. Safety Around the Automobile
6. Basic Tools
7. Auto Care and Cleaning
8. Fluid Level Check
9. Electrical System
10. Lubrication System
11. Fuel System
12. Cooling System and Climate Control
13. Ignition System
14. Suspension, Steering, and Tires

15. Braking System
16. Drivetrain
17. Exhaust and Emission System
18. Alternative Fuels and Designs
19. Automotive Accessories
20. Common Problems and Roadside Emergencies

Features of the Text

Each chapter includes an introduction, essential questions, objectives, chapter content, and summary. Chapters also include helpful guides regarding servicing, tech tips, troubleshooting, average prices of replacement parts, frequently asked questions, web links, and career paths.

QR Codes

A QR (quick response) Code is provided at the beginning of each chapter. With a smartphone and a scanning app you can use the QR codes to easily access additional resources online.

Specifications

200 Full Color Pages

Over 400 Photos and Illustrations

Formats

Hardcover Textbook ISBN 978-1-62702-006-0

Paperback Textbook ISBN 978-1-62702-001-5

Paperback Workbook ISBN 978-1-62702-002-2

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Editorial Review

From [Booklist](#)

This handy guide to car ownership and maintenance explains the basics for consumers, from purchasing a vehicle to common problems, repairs, and safety advice. Plenty of illustrations and color photographs lead the reader through car parts, tools, and automotive systems. There is also an appendix listing lessons on the free companion online workbook, featuring activities such as calculating auto expenses, checking fluid levels, and installing spark plugs. Straightforward and attractive, this book will appeal to all types of car owners, from the grease monkey to the clueless. Public libraries will want a copy (or two) of this updated edition on the shelf. --Rebecca Vnuk

Review

Compact, Colorful, and Complete - Simply the best book yet for the high school driver who wants to learn how to take care of his or her car. Compact, colorful, and complete. David Sweetman, Automotive Instructor, Ketchikan High School, Ketchikan, Alaska

Well Written, Easy to Follow - Auto Upkeep, by Michael E. and Linda E. Gray, is a great book for teaching introductory automotive at both the high school and post-secondary level. It is well written, easy to follow, and full of great information. The book includes information that the everyday consumer should know as well as a strong foundation for those interested in pursuing a career in the automotive field. Bob Stockero, Automotive Instructor/Department Chair, Santa Barbara City College, Santa Barbara, California

One of the Best - This is one of the best beginning books for anyone interested in learning Automotive. James Cox, Automotive Instructor, South Johnston High School, Four Oaks, North Carolina

Clear and Concise - I feel this text is a great introduction to the automobile. It is very clear and concise! I think the new photos really help the reader understand and comprehend what the book is trying to teach. Peter Worley, Automotive Instructor, Appleton East High School, Appleton, Wisconsin

Great Book - This is a great book for beginner automotive classes or drivers ed. Stan Wolski, Automotive Instructor, Alexis I. duPont High School, Greenville, Delaware

Great Primer - The current edition is a great primer text for anyone who drives (or will work on) a vehicle. Many of the teachers at our school would like to take the course and read the book. The chapters on Common Problems and Roadside Emergencies and Alternate Fuels and Designs provide good insight to the realities of driving a vehicle now and in the near future. Buying an Automobile and Automotive Expenses chapters give an eye opening taste of owning a vehicle for high school students. A good all-around starter book! Frank Valentino, Automotive Instructor, Eisenhower High School, Blue Island, Illinois

Excellent Upgrade - Excellent upgrade, the color improves clarity and detail. This was the first thing the students noticed. David Meck, Automotive Instructor, Southern High School, Louisville, Kentucky

Quality vs. Quantity is a Perfect Balance - I am the department chair for the auto program and I along with the other auto instructors have picked your book to use in all the introduction classes (Auto 50, 58, 59, 79-A and the consumer class when offered). I think changing to colored illustrations adds a lot to the book along with the web addresses, tech tips, Q & A areas. I would sum up the book by saying it covers all the systems on vehicles to a point where the student can determine what areas they have an interest in then pursue an

advanced diagnostic class. Quality vs. quantity is a perfect balance. John Sweet, Automotive Instructor/Department Chair, Victor Valley Community College, Victorville, California

Simple and Easy to Use - Great Consumer Auto course book that also doubles as a good first year Automotive Technology course book. The color is used well to make diagrams and figures really Pop on the page. Comprehensive but its well organized layout of each chapter makes it simple and easy to use. Jim Sainsbury, Automotive Instructor, Madison Memorial High School, Madison, Wisconsin

Beginning Student Can Understand - The new colored illustrations are great and the text is written in a way that a beginning student can understand. I do like the Resources Symbol (QR Code Links) on front cover (each chapter cover page has a QR Code Link) for the student with bar code readers (smartphone with scanning app). Michael Furphy, Automotive Instructor, New Mexico State University, Alamogordo, New Mexico

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Great Text - This is a great text for beginning auto students. We all have students in class who will not be going in to the auto repair industry but with this course they will become better automotive consumers. I teach an Intro to Auto Tech class and this text is perfect for this course. It is interesting and engaging. Jerald Swenson, Automotive Instructor, Huron High School, Huron, South Dakota

Current Information - Real World Relevance - Great additions to Chapter 18 Alternative Fuels and Designs. Current information helps with student information, learning, relevance - your text helped save our Auto Program here by showing our Administration how basic automotive knowledge tied in with our life skills programs with real world relevance. Great text! My students will continue to excel using your text. Rob Hill, Automotive Instructor, Victor Valley High School, Victorville, California --3rd.AutoUpkeep.com

About the Author

About Mike

Mike has roots in the automotive service industry. He began diagnosing and fixing cars at a young age in his family's service station. He has worked in automotive parts supply stores, towing companies, and service facilities. After graduating from St. Cloud State University (MN) with a Bachelor's degree, he implemented and taught a basic car care program at the high school level. During work on his Master's degree at Illinois State University (IL), he was a curriculum specialist on a National Science Foundation project where he co-authored ten integrated mathematics, science, and technology books designed for team teaching. Mike has also supervised over 60 teachers in Career and Technology Education as a school system administrator.

About Linda

Linda was motivated to learn about cars early on by her desire to be self-reliant and save money. As basic maintenance and repairs were needed on her car she figured out how to do them. She could often be found working on her Pontiac Fiero and reupholstering automotive interiors at her family's upholstery shop. She found guidance from automotive manuals, her family, friends, and husband Mike. During her studies at the University of Redlands (CA), she worked with classmates to design, build, and test a hybrid electric vehicle. After graduating with a Bachelor's degree in Engineering, Linda worked as a Project Engineer for a bicycle component company. Linda's other interests include alternative energies, home renovation, graphic design, and writing.

Users Review

From reader reviews:

Jill Weber:

Book is to be different for each grade. Book for children until finally adult are different content. As you may know that book is very important usually. The book Auto Upkeep: Basic Car Care, Maintenance, and Repair had been making you to know about other information and of course you can take more information. It is very advantages for you. The e-book Auto Upkeep: Basic Car Care, Maintenance, and Repair is not only giving you considerably more new information but also for being your friend when you sense bored. You can spend your own personal spend time to read your e-book. Try to make relationship with all the book Auto Upkeep: Basic Car Care, Maintenance, and Repair. You never sense lose out for everything in case you read some books.

Jim Molnar:

Many people spending their time period by playing outside together with friends, fun activity together with family or just watching TV the entire day. You can have new activity to pay your whole day by examining a book. Ugh, do you think reading a book can actually hard because you have to accept the book everywhere? It all right you can have the e-book, getting everywhere you want in your Smart phone. Like Auto Upkeep: Basic Car Care, Maintenance, and Repair which is finding the e-book version. So , why not try out this book? Let's observe.

Denise Wentzel:

This Auto Upkeep: Basic Car Care, Maintenance, and Repair is brand new way for you who has interest to look for some information since it relief your hunger associated with. Getting deeper you on it getting knowledge more you know or else you who still having little bit of digest in reading this Auto Upkeep: Basic Car Care, Maintenance, and Repair can be the light food for yourself because the information inside this book is easy to get by anyone. These books build itself in the form which is reachable by anyone, sure I mean in the e-book form. People who think that in guide form make them feel drowsy even dizzy this reserve is the answer. So there is not any in reading a guide especially this one. You can find actually looking for. It should be here for an individual. So , don't miss the idea! Just read this e-book sort for your better life in addition to knowledge.

William Marsh:

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