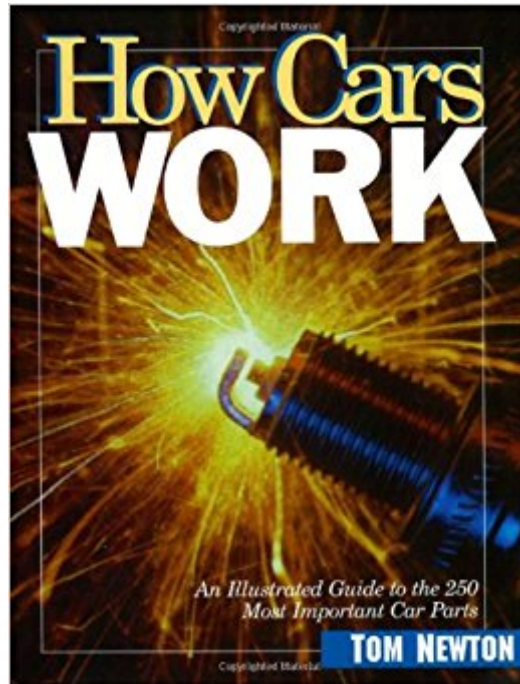




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How Cars Work



Synopsis

How Cars Work is a completely illustrated primer describing the 250 most important car parts and how they work. This mini test book includes wonderfully simple line drawings and clear language to describe all the automotive systems as well as a glossary, index, and a test after each chapter. How Cars Work provides the basic vocabulary and mechanical knowledge to help a reader talk intelligently with mechanics understand shop manuals, and diagnosis car problems. Tom Newton guides the reader with a one topic per page format that delivers information in bite size chunks, just right for teenage boys. How Cars Work was the most stolen book at Kennedy High School in Richmond California! Teachers like our title and so do librarians. The History channel, Modern Marvels-2000, Actuality Productions, Inc is using How Cars Work to train staff for a documentary on automobiles.

Book Information

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Customer Reviews

Author and illustrator Tom Newton is a school psychologist. How Cars Work was developed as a high interest mini-textbook for teens, but is also used by automotive service managers and mechanics to help customers understand repairs. This book can be found in adult literacy programs, high schools, and middle schools. How Cars Work makes it fun and easy to learn how cars work.

"When I opened my tutoring center I could not find enough interesting reading material for my teenage students, especially the boys. So I started writing short descriptions about car parts aimed

at improving reading comprehension. I used simple drawings to help students visualize and associate the car parts with the words. Eventually I had enough material for a complete book and, well, this is it!"

Our son has been under our cars with me more than a few times, and seems very interested in the inner workings. Picked the book up as a stocking stuffer for the Christmas season, and he really seems to have been enjoying going through it. The book gives broad explanations of what different parts of the car do, which will hopefully intrigue our son enough to delve further into how those parts do their magic and how they can be worked on and tweaked. Maybe it is already working, 'cause he asked if it would be OK to take a small engine mechanics class in school next year. We shall see. Nice introductory book to learn the basics of which part does what job, and maybe to help someone take the next step along the path of more in-depth learning. Recommended if that is what you seek too.

I'm a recent mechanical engineering graduate and I (embarrassingly) was never that familiar with car engines. I perform all basic maintenance myself, but have never really done any in-depth repairs out of a combination of laziness and unfamiliarity with engines. Learning the basic 4-stroke engine cycle is one thing, but knowing how an engine and entire automobile is put together is a whole 'nother story. If you are totally unfamiliar with vehicle engines, or have some knowledge but are no expert mechanic by any means, I HIGHLY suggest purchasing this book. It follows a "one page per component" format, meaning every single page in the book is dedicated to a different component. I feel it's the perfect combination of being brief enough to make it easy to read and follow along, but detailed enough so that you really understand HOW components function, just just simply "what they do". The book covers all aspects of how cars work, not just engines. It goes into the steering system, powertrain, cooling system, brakes and parking brakes, electrical system, you name it! Obviously, with only one page dedicated to every component, you aren't going to get into the math/physics behind everything. Each page consists of, generally, statements about the component, its function, and how it interacts with other components to perform its intended function. I'm extremely glad that I purchased this book. If you want to have any idea (or a better idea) of what a mechanic or anyone else is talking about next time you hear the words "differential", "U-Joints", "cylinder head", etc., then buy this book!

"How Cars Work" dives right in and teaches you the basic parts to a car. Its very easy to understand

with pictures to further see how car parts work. Its a great buy if you want to learn the basics about cars and see how they work.

This is a short, sweet description of the major automotive systems and how they function together. The quizzes at each section end really helps to solidify learning. It's not going to make you a master mechanic, but it will REALLY help you to speak to one intelligently.

its a great book that's easy to read. I came from zero knowledge on the subject but this book helped a lot now i wish there was a book one step higher or at home build an engine kit or build your own moped like they use to back in the 80's

My grandsons aged 10&12 are loving reading this book

This is a GREAT teaching book. I love cars but never really knew how they all worked. My interest in learning more encouraged me to buy it one day and I'm very happy I did. For a beginner it is very simple and straight-forward plus it uses a lot of illustrations for the more visual learners like me. I am in no way an expert after having read it but I certainly feel like I know what I'm talking about now when I converse with my mechanic. Thanks Tom for taking the time to write this very valuable book.

This book is a must for anyone interest in the mechanism of automobiles. I had no knowledge in automobile ,no knowledge of how this intricate system works as a whole to give motion. When I purchase this book ,I was intimidated of popping the hood trying to figure out what parts function in what . I am half way through this book,and Now I am confident about what all know because of this book...This book a must for those who :lack basic knowledge of an engine, for those who are tired of doing Google searches In attempts to learn the function of certain parts, already have some knowledge of the basics ,want to get involved in being their own weekend mechanic.etc.Purpose of the book : Make the reader more informed about what an engine must do to give you motion . Teach you more than the basics .This book doesn't teach the following: How to construct an engine, how to set up wiring system , mathematical formulas~ nothing too complex.Topics it will teach : everything regarding an engine,everything regarding drive train,fuel system,cooling system,running gear,brakes,electrical system.My personal thoughts, the book was well thought out regarding explaining each component. It was succinct when explaining each component. This book gave the feeling of comfort because I really learned a lot . When I was ignorant in the subject of engines , I

hated hearing others speak about vehicles. Now, I want people to speak about vehicles so I can be part of conversation! Yes, I recommend this book to anyone interested in automobiles!

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