

# Engine Speed Sensor Diagram 2000 Volkswagen Jetta

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## Theory of Ground Vehicles - J. Y. Wong 2001-03-20

An updated edition of the classic reference on the dynamics of road and off-road vehicles As we enter a new millennium, the vehicle industry faces greater challenges than ever before as it strives to meet the increasing demand for safer, environmentally friendlier, more energy efficient, and lower emissions products. Theory of Ground Vehicles, Third Edition gives aspiring and practicing engineers a fundamental understanding of the critical factors affecting the performance, handling, and ride essential to the development and design of ground vehicles that meet these requirements. As in previous editions, this book focuses on applying engineering principles to the analysis of vehicle behavior. A large number of practical examples and problems are included throughout to help readers bridge the gap between theory and practice. Covering a wide range of topics concerning the dynamics of road and off-road vehicles, this Third Edition is filled with up-to-date information, including: \* The Magic Formula for characterizing pneumatic tire behavior from test data for vehicle handling simulations \* Computer-aided methods for performance and design evaluation of off-road vehicles, based on the author's own research \* Updated data on road vehicle transmissions and operating fuel economy \* Fundamentals of road vehicle stability control \* Optimization of the performance of four-

wheel-drive off-road vehicles and experimental substantiation, based on the author's own investigations \* A new theory on skid-steering of tracked vehicles, developed by the author.

101 Projects for Your Porsche Boxster - Wayne Dempsey . 2011-01-08 Since its introduction in 1997, the Porsche Boxster has earned a reputation as one of the world's greatest sports cars, as well as a huge, loyal following of devoted drivers. This book is aimed at those owners of Boxsters who want to improve their machines while avoiding thousands of dollars in mechanic's costs. Clearly and simply written, with straightforward illustrations, this manual offers 101 projects to help you modify, maintain, and enhance your Porsche. Focusing on the 986 and 987 Boxster models, 101 Projects for Your Porsche Boxster presents all the necessary information, associated costs, and pitfalls to avoid when performing a wide array of projects. In a word, it makes owning a Porsche Boxster an unqualified thrill.

## **Volkswagens of the World** - Simon Glen 1999

A comprehensive guide to all the Volkswagens not built in Germany and the unusual ones that were. Includes VW type designations, chassis numbers, VW options, buggies, military, police, utility vehicles and all the lesser known models produced by VW around the world.

*Cost, Effectiveness, and Deployment of Fuel Economy Technologies for*

*Light-Duty Vehicles* - National Research Council 2015-09-28

The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

*The Bentley Brooklands* - Tony Dron 2010

Since the groundbreaking debut of W.O. Bentley's mighty 3-litre sports car in 1921, Bentley has been producing some of the world's finest motor cars. First unveiled at the Geneva Salon of 2007, the Bentley Brooklands coup is no exception, combining exquisite craftsmanship and the height

of luxury with nerve-tingling performance. The Bentley Brooklands is a glorious celebration of this remarkable, handmade grand tourer. Featuring a fascinating insight into the car's design and manufacture, and a first-hand account of how it performs on the open road, the book also follows the Brooklands as it is driven from London to the south of France to commemorate the famous 'Blue Train' race of 1930 between a Bentley Speed Six and the Calais-Mediterranean Express. With stunning photographs throughout, *The Bentley Brooklands* is a wonderful tribute to a landmark Bentley - a true driver's car in the finest traditions of the marque's history.

**The New York Times Index** - 1993

**Automotive Transmissions** - Yong Chen 2020-07-30

This book introduces readers to the theory, design and applications of automotive transmissions. It covers multiple categories, e.g. AT, AMT, CVT, DCT and transmissions for electric vehicles, each of which has its own configuration and characteristics. In turn, the book addresses the effective design of transmission gear ratios, structures and control strategies, and other topics that will be of particular interest to graduate students, researchers and engineers. Moreover, it includes real-world solutions, simulation methods and testing procedures. Based on the author's extensive first-hand experience in the field, the book allows readers to gain a deeper understanding of vehicle transmissions.

*Car and Driver* - 1983

**Converted!** - Richie Waddell 2011-09

*Converted!* is much more than an installation manual - although it serves as that as well. You will learn everything you need to know to take water and put it through a process called electrolysis to separate the hydrogen from the oxygen as you drive. It silently flows into your vehicle's combustion system and give better economy, a quieter cooler engine and less engine wear. This process, properly installed and tuned, is safe and effective because it creates hydrogen on demand and radically improves the fuel economy of a vehicle. In language understandable by virtually

anyone the book explains the process. There are many photos and illustrations to guide you through. You can purchase the parts you need on your own but Richie has done all the work for you and will send you a complete kit at a very reasonable price if you decide to go ahead and save money while you reduce the pollution in the environment.

**Advanced Automotive Fault Diagnosis** - Tom Denton 2006-08-14  
Diagnostics, or fault finding, is a fundamental part of an automotive technician's work, and as automotive systems become increasingly complex there is a greater need for good diagnostic skills. *Advanced Automotive Fault Diagnosis* is the only book to treat automotive diagnostics as a science rather than a check-list procedure. Each chapter includes basic principles and examples of a vehicle system followed by the appropriate diagnostic techniques, complete with useful diagrams, flow charts, case studies and self-assessment questions. The book will help new students develop diagnostic skills and help experienced technicians improve even further. This new edition is fully updated to the latest technological developments. Two new chapters have been added - On-board diagnostics and Oscilloscope diagnostics - and the coverage has been matched to the latest curricula of motor vehicle qualifications, including: IMI and C&G Technical Certificates and NVQs; Level 4 diagnostic units; BTEC National and Higher National qualifications from Edexcel; International Motor Vehicle qualifications such as C&G 3905; and ASE certification in the USA.

*Como Mantener Tu Volkswagen Vivo* - John Muir 1980-10-01

*The Peanut Butter Fish* - Scott Anderson 2014-08-22

Peanut Butter is a sad little fish. His best friend, Honey, just moved away. The two friends were perfect together, just like a peanut butter and honey sandwich. Now Honey is gone, and Peanut Butter needs a new friend-but how will he find one? Peanut Butter sets out on a thrilling adventure deep in the ocean to find a new best friend. He starts his journey by seeking out only the most beautiful fish in the sea and rejecting all others. Along the way, he encounters colorful characters like sharks, an angelfish, a moon snail, and many more. Peanut Butter soon

realizes that if he wants real friendship, he'll have to look deeper and discover the beauty within other fish. If he can do that, perhaps he'll finally find the perfect friend. Join Peanut Butter on his big adventure, and share in the discovery of a vibrant undersea community. More importantly, swim along with him as he learns about the importance of true friendship.

*PKD Grandfather* - Engy Publishing 2019-12-24

To have a great piece in illustrations and storytelling, it takes a considerable amount of precise planning. This notebook is made to attend to the demands of film makers, story book illustrators, comic artists and advertisers. This notebook contains 120 pages and each pages comprises four 16:9 frames positioned horizontally with lines below for texts. This notebook is a must-have for storyboarding and it is fitting for people who endeavor in creative projects of this kind and it is fashioned to help the creative minds of artists and authors that are building their stories.

**Methland** - Nick Reding 2010-06-03

Traces the efforts of a small Iowa community to counter the pervasiveness of crystal methamphetamine, in an account that offers insight into the drug's appeal while chronicling the author's numerous visits with the town's doctor, the local prosecutor and a long-time addict. Reprint. A best-selling book.

*Handbook of Intelligent Vehicles* - Azim Eskandarian 2012-02-26

The *Handbook of Intelligent Vehicles* provides a complete coverage of the fundamentals, new technologies, and sub-areas essential to the development of intelligent vehicles; it also includes advances made to date, challenges, and future trends. Significant strides in the field have been made to date; however, so far there has been no single book or volume which captures these advances in a comprehensive format, addressing all essential components and subspecialties of intelligent vehicles, as this book does. Since the intended users are engineering practitioners, as well as researchers and graduate students, the book chapters do not only cover fundamentals, methods, and algorithms but also include how software/hardware are implemented, and demonstrate

the advances along with their present challenges. Research at both component and systems levels are required to advance the functionality of intelligent vehicles. This volume covers both of these aspects in addition to the fundamentals listed above.

**Motoring the Future** - Engelbert Wimmer 2011-11-30

The crisis in the auto industry has resulted in a race between Volkswagen, as challenger, and Toyota, as tattered global market leader. Whether it is the German or the Japanese firm that takes pole position, the winner will change the balance of power in the automotive industry and lead the way to the automobiles of the future.

**Volkswagen Jetta, Golf, GTI, Cabrio Service Manual, 1993-1999** -

Robert Bentley, inc 1999

Bentley Publishers is the exclusive factory-authorized publisher of Volkswagen Service Manuals in the United States and Canada. In every manual we provide full factory repair procedures, specifications, tolerances, electrical wiring diagrams, and lubrication and maintenance information. Bentley manuals are the only complete, authoritative source of Volkswagen maintenance and repair information. Even if you never intend to service your car yourself, you'll find that owning a Bentley Manual will help you to discuss repairs more intelligently with your service technician.

*Drive Nacho Drive* - Brad Van Orden 2013-08

The story of what happens when Brad and Sheena Van Orden trade in the American Dream for a year on the roads of Central and South America aboard "Nacho," their quirky and somewhat temperamental Volkswagen van.

*Internal Combustion Engines* - Institution of Mechanical Engineers 2014-10-10

This book presents the papers from the Internal Combustion Engines: Performance, fuel economy and emissions held in London, UK. This popular international conference from the Institution of Mechanical Engineers provides a forum for IC engine experts looking closely at developments for personal transport applications, though many of the drivers of change apply to light and heavy duty, on and off highway,

transport and other sectors. These are exciting times to be working in the IC engine field. With the move towards downsizing, advances in FIE and alternative fuels, new engine architectures and the introduction of Euro 6 in 2014, there are plenty of challenges. The aim remains to reduce both CO2 emissions and the dependence on oil-derivate fossil fuels whilst meeting the future, more stringent constraints on gaseous and particulate material emissions as set by EU, North American and Japanese regulations. How will technology developments enhance performance and shape the next generation of designs? The book introduces compression and internal combustion engines' applications, followed by chapters on the challenges faced by alternative fuels and fuel delivery. The remaining chapters explore current improvements in combustion, pollution prevention strategies and data comparisons. presents the latest requirements and challenges for personal transport applications gives an insight into the technical advances and research going on in the IC Engines field provides the latest developments in compression and spark ignition engines for light and heavy-duty applications, automotive and other markets

[How to Hot Rod Volkswagen Engines](#) - Bill Fisher 1987-01-01

Fire and ice . . . that's what you get when you take the cool looks of the Volkswagen Beetle, Bus, Karmann Ghia, Thing, Squareback or Fastback and unleash the hot performance of the air-cooled VW engine. How to hot Rod Volkswagen Engines gives the real skinny for breathing-on, blueprinting and bulletproofing your air-cooled Vee-dub. Street, custom, kit car, off-road, or full-race, this book gives you all the air-cooled engine-building basics to find and put to the pavement hidden horsepower. Includes tips on carburetion, ignition and exhaust tuning, case beefing, cylinder-head flow work, camshaft selection, lubrication and cooling upgrades, 6-to 12-volt conversions and much more. Plus there's a natty 6-page history of the origins of the first air-cooled VW engines. Go ahead. You deserve it! Double or triple the output of your air-cooled Volkswagen. Or add 10-15 horsepower with easy bolt-on mods. Mild or wild, do it the right way—with this book. More than 300 photos, drawings and charts to guide you through your VW's innards. And don't

look back.

**National Automotive Sampling System, Crashworthiness Data System** - 1993

**Fundamentals of Heat and Mass Transfer** - Frank P. Incropera 2002

This book provides a complete introduction to the physical origins of heat and mass transfer. Contains hundred of problems and examples dealing with real engineering processes and systems. New open-ended problems add to the increased emphasis on design. Plus, Incropera & DeWitts systematic approach to the first law develops readers confidence in using this essential tool for thermal analysis.

**Fuel Economy Guide** - 1997

Volkswagen Rabbit, Jetta (A1 Diesel Service Manual 1977, 1978, 1979, 1980, 1981, 1982, 1984, 1984: Including Pickup Truck and Turbo Diesel - Bentley Publishers 2012-03-01

The Volkswagen Rabbit, Jetta (A1) Diesel Service Manual: 1977-1984 covers 1977 through 1984 models with diesel engines, including those built on the "A1" platform. This manual includes both the American-made and German-made Rabbits, VW Jettas, and VW Pickup Trucks with diesel engines built for sale in the United States and Canada. Engines covered: \* 1.6L Diesel (engine code: CK, CR, JK) \* 1.6L Turbo-Diesel (engine code: CY)

*Automotive Mechatronics: Operational and Practical Issues* - B. T. Fijalkowski 2011-03-14

This book presents operational and practical issues of automotive mechatronics with special emphasis on the heterogeneous automotive vehicle systems approach, and is intended as a graduate text as well as a reference for scientists and engineers involved in the design of automotive mechatronic control systems. As the complexity of automotive vehicles increases, so does the dearth of high competence, multi-disciplined automotive scientists and engineers. This book provides a discussion into the type of mechatronic control systems found in modern vehicles and the skills required by automotive scientists and

engineers working in this environment. Divided into two volumes and five parts, Automotive Mechatronics aims at improving automotive mechatronics education and emphasises the training of students' experimental hands-on abilities, stimulating and promoting experience among high education institutes and produce more automotive mechatronics and automation engineers. The main subject that are treated are: VOLUME I: RBW or XBW unibody or chassis-motion mechatronic control hypersystems; DBW AWD propulsion mechatronic control systems; BBW AWB dispulsion mechatronic control systems; VOLUME II: SBW AWS conversion mechatronic control systems; ABW AWA suspension mechatronic control systems. This volume was developed for undergraduate and postgraduate students as well as for professionals involved in all disciplines related to the design or research and development of automotive vehicle dynamics, powertrains, brakes, steering, and shock absorbers (dampers). Basic knowledge of college mathematics, college physics, and knowledge of the functionality of automotive vehicle basic propulsion, dispulsion, conversion and suspension systems is required.

**Just Needs a Recharge** - Rob Siegel 2018-04-24

Air conditioning in vintage cars often falls into disrepair, as owners figure that it never really worked all that well when it was new, and assume that rejuvenation would be prohibitively expensive. In his new book, Just Needs a Recharge: The Hack Mechanic Guide to Vintage Air Conditioning, Rob Siegel details exactly what's needed to resurrect long-dead air conditioning in a vintage car, or install a/c in a car that never had it. In a level of detail not found in any other automotive a/c book, Rob reveals what you need to know about flare and o-ring fittings, upgrading to a rotary-style compressor and a parallel-flow condenser, making or specifying custom hoses, and selecting refrigerant so that the a/c blows cold enough to be usable. Although the book draws from Rob's BMW experience (with specifics for the BMW 2002 and 3.0CS), and concentrates on vintage a/c systems (those that have flare fittings and originally contained R12), most of the information applies to any air conditioning system, foreign or domestic, vintage or modern. Written in

Rob's entertaining Hack Mechanic narrative voice, and including 240 photographs and illustrations, the book covers theory, the choice of refrigerant (R12, R134a, other EPA-approved, non-EPA-approved), legality, tools for a/c work, fittings and sizes, the compressor, the evaporator assembly and expansion valve or orifice tube, the condenser and fan, the receiver/drier or accumulator, electrical connections and compressor cycling, connecting and using manifold gauges, the basic steps for a/c rejuvenation, from-scratch a/c retrofit, making and installing hoses, flushing the system, pressure-testing and leak detection, evacuating and charging the system troubleshooting, and other things that heat up the cabin.

Pocket Mechanic - Peter RUSSEK (Author.) 1989-12-01

**Volkswagen Jetta Service Manual** - Bentley Publishers 2006

Engines covered - 1.9L TDI diesel (engine code: BRM) - 2.0L FSI turbo gasoline (engine code: BPY) - 2.5L gasoline (engine code: BGP, BGQ)  
Transmissions covered (remove, install, external service): - 04A 5-speed manual - 02Q 6-speed manual - 09G 6-speed automatic - 02E 6-speed DSG

Lucky Me - Stacy T. Geere 2010-07-01

**Used Car Buying Guide 1995** - Consumer Reports 1995-05

With the average price of a new car now exceeding \$18,000, this is the guide used-car buyers wait for--the one the New York Daily News called the most useful guide on the market. This guide will steer consumers to the makes and models most likely to provide reliable and practical transportation, and help minimize the chance of making an expensive mistake.

**Volkswagen GTI Golf-Jetta Service Manual, 1985-1992** - Robert Bentley, inc 1992

New information covers the 2.0 liter 16V engine, ABS troubleshooting & service, CIS-E Motronic fuel injection, Digifant I fuel injection with On-Board Diagnosis, ECO Diesel, & full manual transaxle rebuilding procedures. A special Fundamentals section has been added to the

beginning of the manual to help the owner understand the basics of automotive systems & repair procedures. The most comprehensive Golf manual available.

Automotive Engineering e-Mega Reference - David Crolla 2009-06-16

This one-stop Mega Reference eBook brings together the essential professional reference content from leading international contributors in the automotive field. An expansion the Automotive Engineering print edition, this fully searchable electronic reference book of 2500 pages delivers content to meet all the main information needs of engineers working in vehicle design and development. Material ranges from basic to advanced topics from engines and transmissions to vehicle dynamics and modelling. \* A fully searchable Mega Reference Ebook, providing all the essential material needed by Automotive Engineers on a day-to-day basis. \* Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. \* Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

**Understanding Psychology for Medicine and Nursing** - Mohamed Ahmed Abd El-Hay 2019-12-16

The book presents a comprehensive updated approach to current psychological knowledge to facilitate a rapid review of the major subjects in psychology in medicine and to stimulate further detailed study. The book is divided into five Parts. Part One provides an elaborate background of the various sub-disciplines of psychology, the various theories and schools of thoughts encompassing them. Part Two discusses the links between the physical and psychological state of being human. Part Three elucidates the basic psychological processes that shape human cognizance. Part Four talks about the different factors which influence the human psyche. Part Five discusses the various aspects of clinical psychology and their implications for the physical well-being of people. Understanding Psychology for Medicine and Nursing distinguishes itself in providing a concise, clear understanding of most of the basic topics of psychology that are essential to all students of general psychology, but particularly to medical and nursing students, and to

postgraduate trainees in psychiatry.

**The New Beetle** - Matt DeLorenzo 1998

An exclusive look at VW's reinvention of the automotive world's icon follows the New Beetle from drawing board to concept car to the media blitz that accompanied the final product.

*Bosch Automotive Electrics and Automotive Electronics* - Robert Bosch GmbH 2013-09-24

This is a complete reference guide to automotive electrics and electronics. This new edition of the definitive reference for automotive engineers, compiled by one of the world's largest automotive equipment suppliers, includes new and updated material. As in previous editions different topics are covered in a concise but descriptive way backed up by diagrams, graphs, photographs and tables enabling the reader to better comprehend the subject. This fifth edition revises the classical topics of the vehicle electrical systems such as system architecture, control, components and sensors. There is now greater detail on electronics and their application in the motor vehicle, including electrical energy management (EEM) and discusses the topic of inter system networking within the vehicle. It also includes a description of the concept of hybrid drive a topic that is particularly current due to its ability to reduce fuel consumption and therefore CO2 emissions. This book will benefit automotive engineers and design engineers, automotive technicians in training and mechanics and technicians in garages. It may also be of interest to teachers/ lecturers and students at vocational colleges, and enthusiasts.

**Assessment of Fuel Economy Technologies for Light-Duty Vehicles**

- National Research Council 2011-06-03

Various combinations of commercially available technologies could greatly reduce fuel consumption in passenger cars, sport-utility vehicles, minivans, and other light-duty vehicles without compromising vehicle performance or safety. Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy estimates the potential fuel savings and costs to consumers of available technology combinations for three types of engines: spark-ignition gasoline, compression-ignition diesel, and hybrid.

According to its estimates, adopting the full combination of improved technologies in medium and large cars and pickup trucks with spark-ignition engines could reduce fuel consumption by 29 percent at an additional cost of \$2,200 to the consumer. Replacing spark-ignition engines with diesel engines and components would yield fuel savings of about 37 percent at an added cost of approximately \$5,900 per vehicle, and replacing spark-ignition engines with hybrid engines and components would reduce fuel consumption by 43 percent at an increase of \$6,000 per vehicle. The book focuses on fuel consumption--the amount of fuel consumed in a given driving distance--because energy savings are directly related to the amount of fuel used. In contrast, fuel economy measures how far a vehicle will travel with a gallon of fuel. Because fuel consumption data indicate money saved on fuel purchases and reductions in carbon dioxide emissions, the book finds that vehicle stickers should provide consumers with fuel consumption data in addition to fuel economy information.

Citroen Berlingo & Peugeot Partner - Haynes Publishing 2014-07

This is one in a series of manuals for car or motorcycle owners. Each book provides information on routine maintenance and servicing, with tasks described and photographed in a step-by-step sequence so that even a novice can do the work.

**Engine Modeling and Control** - Rolf Isermann 2014-07-01

The increasing demands for internal combustion engines with regard to fuel consumption, emissions and driveability lead to more actuators, sensors and complex control functions. A systematic implementation of the electronic control systems requires mathematical models from basic design through simulation to calibration. The book treats physically-based as well as models based experimentally on test benches for gasoline (spark ignition) and diesel (compression ignition) engines and uses them for the design of the different control functions. The main topics are: - Development steps for engine control - Stationary and dynamic experimental modeling - Physical models of intake, combustion, mechanical system, turbocharger, exhaust, cooling, lubrication, drive train - Engine control structures, hardware, software, actuators, sensors,

fuel supply, injection system, camshaft - Engine control methods, static and dynamic feedforward and feedback control, calibration and optimization, HiL, RCP, control software development - Control of gasoline engines, control of air/fuel, ignition, knock, idle, coolant, adaptive control functions - Control of diesel engines, combustion models, air flow and exhaust recirculation control, combustion-pressure-based control (HCCI), optimization of feedforward and feedback control, smoke limitation and emission control This book is an introduction to electronic engine management with many practical examples, measurements and research results. It is aimed at advanced students of electrical, mechanical, mechatronic and control engineering and at practicing engineers in the field of combustion engine and automotive engineering.

**Ignition Systems for Gasoline Engines** - Michael Günther 2016-11-18

The volume includes selected and reviewed papers from the 3rd Conference on Ignition Systems for Gasoline Engines in Berlin in November 2016. Experts from industry and universities discuss in their papers the challenges to ignition systems in providing reliable, precise ignition in the light of a wide spread in mixture quality, high exhaust gas recirculation rates and high cylinder pressures. Classic spark plug ignition as well as alternative ignition systems are assessed, the ignition system being one of the key technologies to further optimizing the gasoline engine.

**Overcoming Barriers to Deployment of Plug-in Electric Vehicles** -

National Research Council 2015-06-26

In the past few years, interest in plug-in electric vehicles (PEVs) has grown. Advances in battery and other technologies, new federal

standards for carbon-dioxide emissions and fuel economy, state zero-emission-vehicle requirements, and the current administration's goal of putting millions of alternative-fuel vehicles on the road have all highlighted PEVs as a transportation alternative. Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles, such as lower operating costs, smoother operation, and better acceleration; the ability to fuel up at home; and zero tailpipe emissions when the vehicle operates solely on its battery. There are, however, barriers to PEV deployment, including the vehicle cost, the short all-electric driving range, the long battery charging time, uncertainties about battery life, the few choices of vehicle models, and the need for a charging infrastructure to support PEVs. What should industry do to improve the performance of PEVs and make them more attractive to consumers? At the request of Congress, *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers. This report examines the characteristics and capabilities of electric vehicle technologies, such as cost, performance, range, safety, and durability, and assesses how these factors might create barriers to widespread deployment. *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers. Through consideration of consumer behaviors, tax incentives, business models, incentive programs, and infrastructure needs, this book studies the state of the industry and makes recommendations to further its development and acceptance.