

Audi A4 2016 Cvt Transmission Service Manual

Das Bosch-Fachwissen garantiert anwendungsnahe Hintergrundwissen aus erster Hand. Kompakt und einführend werden in diesem Band die Grundlagen von Otto- und Dieselmotor und deren elektronische Steuerung dargestellt. Behandelt werden außerdem die Grundlagen zu Hybridantrieben und zur Fahrzeugsicherheit, insbesondere zum elektronischen Stabilitäts-Programm und zu Insassenschutz- und Bremssystemen. So gewinnt der Leser einen fundierten und doch gut verständlichen Überblick über die Funktionen moderner Kraftfahrzeuge.

The automotive industry appears close to substantial change engendered by “self-driving” technologies. This technology offers the possibility of significant benefits to social welfare—saving lives; reducing crashes, congestion, fuel consumption, and pollution; increasing mobility for the disabled; and ultimately improving land use. This report is intended as a guide for state and federal policymakers on the many issues that this technology raises.

The Audi A4 Service Manual: 2002-2008 contains in-depth maintenance, service and repair information for Audi A4 models from 2002 to 2008 built on the B6 or B7 platforms. Service to Audi owners is of top priority to Audi and has always included the continuing development and introduction of new and expanded services. Whether you're a professional or a do-it-yourself Audi owner, this manual will help you understand, care for and repair your Audi. Engines covered: 1.8L turbo gasoline (engine code: AMB) 2.0L turbo FSI gasoline (engine codes: BGP, BWT) 3.0L gasoline (engine codes: AVK, BGN) 3.2L gasoline (engine codes: BKH) Transmissions covered: 5-speed Manual (transmission

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codes: 012, 01W, 01A) 6-speed Manual (transmission codes: 01E, 01X, 02X) 5-speed Automatic (transmission code: 01V) 6-speed Automatic (transmission code: 09L) CVT (transmission code: 01J)

While the history of European competition motorcycles has been largely dominated by Italian, British, and German marques, other builders around the continent have also played significant roles from the turn of the century to present. Arranged by nation, this book examines more than two dozen important marques, including Bultaco, CZ, Elf, Husqvarna, KTM, Ossa, Peugeot, and many others. A wealth of rare photography, including a special color section, includes candid shots of the top personalities and the bikes both at rest and at speed.

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

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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.

A History of Progress chronicles the fascinating history of Audi AG, from its beginnings in Germany in 1909 to its unique place in the market today. This detailed walk through Audi's accomplishments covers all of the company's changes through the years. The entire Audi "family tree" is examined in detail-Wanderer, DKW, Horch, AudiA697, Auto Union, NSU-their participation in motor sports, & bios of the people who made the company what it is today. A History of Progress contains hundreds of rare factory photos & illustrations, presenting Audi's past & present in a hardcover, high quality book. Whether you are an Audi owner, enthusiast or automotive historian, A History of Progress belongs on your bookshelf. A beautiful hardcover edition.

Covers Passat (1998-2005) and Audi A4 (1996-2001), 1.8L 4-cylinder turbo and 2.8L V6 engines.

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies

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haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

"This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience"--

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From daily commutes to cross-country road trips, millions of light-duty vehicles are on the road every day. The transportation sector is one of the United States's largest sources of greenhouse gas emissions, and fuel is an important cost for drivers. The period from 2025-2035 could bring the most fundamental transformation in the 100-plus year history of the automobile. Battery electric vehicle costs are likely to fall and reach parity with internal combustion engine vehicles. New generations of fuel cell vehicles will be produced. Connected and automated vehicle technologies will become more common, including likely deployment of some fully automated vehicles. These new categories of vehicles will for the first time assume a major portion of new vehicle sales, while internal combustion engine vehicles with improved powertrain, design, and aerodynamics will continue to be an important part of new vehicle sales and fuel economy improvement. This study is a technical evaluation of the potential for internal combustion engine, hybrid, battery electric, fuel cell, nonpowertrain, and connected and automated vehicle technologies to contribute to efficiency in 2025-2035. In addition to making findings and recommendations related to technology cost and capabilities, Assessment of Technologies for Improving Light-Duty Vehicle Fuel Economy - 2025-2035 considers the impacts of changes in consumer behavior and regulatory regimes.

Python Crash Course is a fast-paced, thorough introduction to Python that will have you writing programs, solving problems, and making things that work in no time. In the first half of the book, you'll learn about

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basic programming concepts, such as lists, dictionaries, classes, and loops, and practice writing clean and readable code with exercises for each topic. You'll also learn how to make your programs interactive and how to test your code safely before adding it to a project. In the second half of the book, you'll put your new knowledge into practice with three substantial projects: a Space Invaders–inspired arcade game, data visualizations with Python's super-handly libraries, and a simple web app you can deploy online. As you work through Python Crash Course you'll learn how to: –Use powerful Python libraries and tools, including matplotlib, NumPy, and Pygal –Make 2D games that respond to keypresses and mouse clicks, and that grow more difficult as the game progresses –Work with data to generate interactive visualizations –Create and customize Web apps and deploy them safely online –Deal with mistakes and errors so you can solve your own programming problems If you've been thinking seriously about digging into programming, Python Crash Course will get you up to speed and have you writing real programs fast. Why wait any longer? Start your engines and code! Uses Python 2 and 3

Engines Covered 1.8L turbo gasoline(engine codes: AEB, ATW, AWM) 2.8L gasoline(engine codes: AFC, AHA, ATQ) Transmissions covered 5-speed Manual 012, 01W, 01A 5-speed Automatic 01V

Die Komplexität in der Fahrzeugtechnik für Mobilitätsangebote wächst. Fahrzeugingenieurinnen und -ingenieure und Personen in allen Bereichen der Mobilität benötigen in der Praxis und Ausbildung den

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sicheren und raschen Zugriff auf Grundlagen und Details der Fahrzeugtechnik, der Vernetzung und deren dazugehörigen industriellen Prozessen. Diese Informationen sind in der aktuellen Auflage umfassend dargestellt. Neben der Berücksichtigung der aktuellen Fortschritte der Automobile wird besonders auf die rasante Entwicklung für Hybrid- und Elektrofahrzeuge eingegangen. Daneben beeinflusst die Vernetzung der Fahrzeuge untereinander und mit der äußeren Verkehrsinfrastruktur sowie das automatisierte Fahren sehr stark die Entwicklung auf dem Mobilitätsektor. In der 8. Auflage sind viele Neuerungen auf dem Gebiet Mobilität, Verbrennungsmotor, Hybrid- und Elektroantrieb, Brennstoffzelle, Fahrzeugsicherheit, Elektrik, Elektronik und Vernetzung eingearbeitet. Die Autoren sind exzellente Fachleute der Automobil- und Zuliefererindustrie sowie der Universitäten. Sie stellen sicher, dass Theorie und Praxis vernetzt dargestellt werden.

Now in full color! Easy lessons for essential tasks Big full-color visuals Skill-building practice files The quick way to learn PowerPoint! This is learning made easy. Get productive fast with PowerPoint 2016 and jump in wherever you need answers--brisk lessons and colorful screen shots show you exactly what to do, step by step. Create compelling presentations Customize themes and templates Design professional looking charts and graphs for your slides Work with PowerPoint on your PC or touch device

Buying a car is a personal choice that has become a more complex decision because of advances in

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technology, and reliability issues that are haunting some car makers. Many consumers look to Zack Spencer, the host of Driving Television, for straightforward, no-nonsense, expert advice. In Motormouth, you will find out which vehicles are the safest, most reliable, and best value for your hard-earned dollar. In an easy-to-understand format, you will get: Fuel economy ratings Pros and cons for performance, handling, comfort, and ease-of-use Standard safety features J.D. Power Initial Quality and Dependability scores Base warranty information Engine specifications Pricing for base models Reviews of option packages and trim levels Zack's Top Picks for each category Zack provides insider buying tips to help you, whether you are buying privately, off the internet, or making the rounds to different dealers. He also advises you on your decision to lease, purchase or finance. At your fingertips are strategies and lessons learned from people's adventures in car buying, some with happy endings and others not-so-happy. From a fuel-sipping family friendly hauler to a rubber-burning luxury sports car, you can rely on Motormouth 2011 edition for the information you need to make a wise purchase decision. Go prepared and don't get stuck with a lemon. Take Motormouth along for the ride.

Learn to start open, productive talks about money with your parents as they age As your parents age, you may find that you want or need to broach the often-difficult subject of finances. In Mom and Dad, We Need to Talk: How to Have Essential Conversations with Your Parents About Their Finances, you'll learn the best ways to approach this issue, along with a wealth of financial and

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legal information that will help you help your parents into and through their golden years. Sometimes parents are reluctant to address money matters with their adult children, and topics such as long-term care, retirement savings (or lack thereof), and end-of-life planning can be particularly touchy. In this book, you'll hear from others in your position who have successfully had "the talk" with their parents, and you'll read about a variety of conversation strategies that can make talking finances more comfortable and more productive. Learn conversation starters and strategies to open the lines of communication about your parents' finances Discover the essential financial and legal information you should gather from your parents to be prepared for the future Gain insight from others' stories of successfully talking money with aging parents Gather the courage, hope, and motivation you need to broach difficult subjects such as care facilities and end-of-life plans For children of Baby Boomers and others looking to assist aging parents with their finances, Mom and Dad, We Need to Talk is a welcome and comforting read. Although talking money with your parents can be hard, you aren't alone, and this book will guide you through the process of having fruitful financial conversations that lead to meaningful action. A comprehensive introduction to automotive repair for novices presents a helpful self-diagnosis guide organized for quick troubleshooting, along with more than three hundred illustrations, warranty information, step-by-step instructions on how to conduct routine maintenance, and an overview of each automotive system and how it works. Original. 20,000 first printing.

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Steers buyers through the the confusion and anxiety of new and used vehicle purchases like no other car-and-truck book on the market. “Dr. Phil,” along with George Iny and the Editors of the Automobile Protection Association, pull no punches.

This book constitutes the refereed proceedings of the 17th International Conference on Artificial Intelligence: Methodology, Systems, and Applications, AIMS 2016, held in Varna, Bulgaria in September 2015. The 32 revised full papers 6 poster papers presented were carefully reviewed and selected from 86 submissions. They cover a wide range of topics in AI: from machine learning to natural language systems, from information extraction to text mining, from knowledge representation to soft computing; from theoretical issues to real-world applications.

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.

Buying a car is never easy. Besides spending a sizeable amount of money on this investment, your liveliness

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probably relies on this vehicle. You need to know that your car will get you from point A to point B in a timely and safe manner—so buying a lemon is not something you can afford to do. *Buying A Car For Dummies* is for you if you need to find out how to buy, sell, insure, drive, protect, or rent a vehicle. It doesn't matter how old you are (as long as you can legally drive and have a license), this book can make your experience with cars a smooth ride. *Buying A Car For Dummies* can help you save a truckload of money over the life of your vehicle as you find out all you need to know about new and used car ownership in this entertaining and informative reference guide. This dependable book covers all avenues of buying and owning a car, from negotiating a fair price to finding reliable insurance to saving money on routine servicing. You'll stay in the driver's seat as you discover how to: Calculate how much your current car really costs you Weigh the pros and cons of buying new or used Get the best trade-in, resale, or donation value for your vehicle Pick out a cherry and avoid lemons—expert advice for buying a reliable used car Determine what features and options you really need in a new car Get the straight scoop on financing or leasing your car Find an insurance policy and company you can trust Protect your automotive assets—from steering wheel locks to full-blown security systems With *Buying A Car For Dummies* as your guide, you can park your fears, frustrations, and anxieties as you discover how to decide between buying or leasing new wheels, how to negotiate with car dealers, how to foil car thieves and carjackers, how to protect yourself in a breakdown or accident, and

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how to protect your automotive assets with insurance, warranties, and service contracts. Plus, the book features a list of ten great automotive Web sites for pricing information, ratings, industry news, diagnostic troubleshooting, and more.

Matt Keegan interviews artists and commissions writing to reassess the 1990s as the moment when the Democratic Party abandoned its New Deal values and swung to the right. In the wake of the Trump election, artist Matt Keegan (born 1976) began investigating the Democratic Party's shifts over recent decades. In the late '80s, members of the Democratic Leadership Council successfully moved the party's platform to the right by including a pro-business, pro-military, interventionist agenda, and downplaying social infrastructure as a calculated break from its New Deal-era foundation. This shift led to Bill Clinton's consecutive terms. 1996 captures this pivotal time in American politics and society through the experience of artists who completed their undergraduate studies in that year and voted for Clinton, and others who were born in 1996 and voted for the first time in 2016. Essays focus on cultural and ideological shifts from that time, such as the 1994 Crime Bill, 1996 Immigration Act, the Telecommunications Act, the start of Fox News and beyond.

This is the story of the Audi TT- one of the biggest motoring sensations of the 1990s. Audi's most exciting car since the original Quattro has won plaudits from the moment of its launch, and has remained hugely popular in spite of question marks over the safety of early versions. James Ruppert tells the complete story of the

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TT roadster and coupe, in all their versions, finding where the design came from, where it is going to and the impact this little big car has had on the motoring world. The aim of this volume is to provide deep insights and the latest scientific developments and trends in experimental economics. Derived from the 2015 Computational Methods in Experimental Economics (CMEE) conference, this book features papers containing research and analysis of economic experiments concerning research in such areas as management science, decision theory, game theory, marketing and political science. The goal is to present possibilities for using various computer methods in the scope of experimental economics to further provide researchers with a wide variety of tools. The field of experimental economics is rapidly evolving. Modern use of experimental economics requires the integration of knowledge in the domains of economic sciences, computer science, psychology, and neuroscience. Recent research includes experiments conducted both in the laboratory and in the field, and the results are used for testing and a better understanding of economic theories. Researchers working in this field use mainly a set of well-established methods and computer tools that support the experiments. Methods such as artificial intelligence, computer simulation and computer graphics, however, are not represented enough in experimental economics studies and most experimenters do not consider their usage. The goal of the conference and the enclosed papers is to allow for an exchange of experiences and to promote joint initiatives to insight

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change in this trend.

Get prepared for the upcoming school year and get organized with this notepad. A great place to record the main important information of your class, lecture or meeting and to create a to-do list. PICK THIS PRODUCT NOW! Perfect for girls or boys, this notebook can also be used as a diary. Features: ample room for notes on lined journal pages. Product description: 6 x 9; 120 pages of lined paper, uniquely designed matte cover. We have lots of great notebooks, sheet music, planners and journals, so be sure to check out our other listings by clicking on the "Author Name" link just below the title of this tracker. Ideas on how to use this journal: back to school shopping; high school student gift; middle school student present; teacher supplies for university and college; pupils who like sketching and doodling.

The Audi A4 (B5): 1996-2001 Service Manual contains in-depth maintenance, service and repair information for Audi A4 models built on the B5 platform from 1996 to 2001. Service to Audi owners is of top priority to Audi and has always included the continuing development and introduction of new and expanded services. The aim throughout this manual has been simplicity and clarity, with practical explanations, step-by-step procedures, and factory specifications. Whether you're a professional or a do-it-yourself Audi owner, this manual will help you understand, care for, and repair your Audi. Engines covered: * 1.8L turbo gasoline (engine codes: AEB, ATW, AWM) * 2.8L gasoline (engine codes: AFC, AHA, ATQ) Transmissions covered: * 5-speed Manual (transmission codes: 012, 01W, 01A) * 5-speed

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Automatic (transmission code 01V)

Thinking about a knockout audio system for your car? Not sure what you need, want, or can afford? Car Audio For Dummies is a great place to find some answers! But wait — what if speakers that vibrate your floorboards don't turn you on? What if you're thinking more about hands-free phone access and a DVD player to entertain the kids? Surprise! Car Audio For Dummies can give you a hand there, too. Whether you want to feel as if your favorite band is performing right on top of your dashboard or you want to keep the soccer team entertained on the way to the tournament, this friendly guide can help. From planning your system and buying components to getting them installed and protecting your investment, you'll find plenty of wise advice. Get the scoop on: Figuring out what kind of equipment you need to do what you want Identifying good sound quality when you hear it Adding components to a factory system Choosing a video player, hands-free phone system, amplifiers, speakers, and more Finding a reliable installer (today's automotive electronics systems are so complex that you probably won't want to go it alone) Understanding warranties and returns Protecting and insuring your system Car Audio For Dummies is sort of like that knowledgeable friend you want to take along when you tackle a project like this. Sounds like a good idea, doesn't it?

For more than 70 years, memorable automobiles have rolled out of Bayerische Motor Werke. This sprawling photographic history spans the entire range, from the 1927 Dixi 3/51 PS to the James Bond Z8 roadster. The

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story of BMW's genesis in the aircraft industry is followed by complete series and model histories and overviews of BMW forays into motorsport. Gorgeously illustrated with rare archival imagery and modern color photos, this lavish treatment features classics like the mystically elegant pre-war 328, post-war 502 luxury saloons, the curious single-cylinder Isetta, hand-built 507 sports cars, the revolutionary 2002 Turbo, the M1 supercar, the Z3 roadster and much more.

This is a compilation of the best papers in the history of Magnesium Technology, a definitive annual reference in the field of magnesium production and related light metals technologies. The volume contains a strong topical mix of application and fundamental research articles on magnesium technology. Section titles:

- 1.Magnesium Technology History and Overview
- 2.Electrolytic and Thermal Primary Production
- 3.Melting, Refining, Recycling, and Life-Cycle Analysis
- 4.Casting and Solidification
- 5.Alloy and Microstructural Design
- 6.Wrought Processing
- 7.Modeling and Simulation
- 8.Joining
- 9.Corrosion, Surface Treatment, and Coating

The world's most popular spreadsheet program is now more powerful than ever, but it's also more complex.

That's where this Missing Manual comes in. With crystal-clear explanations and hands-on examples, Excel 2013: The Missing Manual shows you how to master Excel so you can easily track, analyze, and chart your data. You'll be using new features like PowerPivot and Flash Fill in no time. The important stuff you need to know: Go from novice to ace. Learn how to analyze your data, from writing your first formula to charting your results.

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Illustrate trends. Discover the clearest way to present your data using Excel's new Quick Analysis feature. Broaden your analysis. Use pivot tables, slicers, and timelines to examine your data from different perspectives. Import data. Pull data from a variety of sources, including website data feeds and corporate databases. Work from the Web. Launch and manage your workbooks on the road, using the new Excel Web App. Share your worksheets. Store Excel files on SkyDrive and collaborate with colleagues on Facebook, Twitter, and LinkedIn. Master the new data model. Use PowerPivot to work with millions of rows of data. Make calculations. Review financial data, use math and scientific formulas, and perform statistical analyses. This title is one of the "Essentials" IT Books published by TechNet Publications Limited. This Book is a very helpful practical guide for beginners in the topic , which can be used as a learning material for students pursuing their studies in undergraduate and graduate levels in universities and colleges and those who want to learn the topic via a short and complete resource. We hope you find this book useful in shaping your future career. This book will be available soon...

The Emily Post Institute, the most trusted brand in etiquette, tackles the latest issues regarding how we interact along with classic etiquette and manners advice in this updated and gorgeously packaged edition. Today's world is in a state of constant change. But one thing remains year after year: the necessity for good etiquette. This 19th edition of Emily Post's Etiquette offers insight and wisdom on a variety of new topics and

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fresh advice on classic conundrums, including: Social media Living with neighbors Networking and job seeking Office issues Sports and recreation Entertaining at home and celebrations Weddings Invitations Loss, grieving, and condolences Table manners While they offer useful information on the practical—from table settings and introductions to thank-you notes and condolences—the Posts make it clear why good etiquette matters. Etiquette is a sensitive awareness of the feelings of others, they remind us. Ultimately, being considerate, respectful, and honest is what's really important in building positive relationships. "Please" and "thank you" do go a long way, and whether it's a handshake, a hug, or a friend request, it's the underlying sincerity and good intentions behind any action that matter most.

Reviews of more than two hundred automobiles, four-wheel drive vehicles, and compact vans are accompanied by specification data, the latest prices, and recommendations, as well as lists of warranties, and tips on financing and insurance.

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