

## Manual Carburator Vitara

HM Suzuki Sierra 1988-2000/Vitara 1988-1998Haynes ManualsPopular MechanicsSuzuki Samurai/Sidekick and Geo Tracker Automotive Repair ManualHaynes Publications

This manual takes the mystery out of Second-Generation On-Board Diagnostic Systems allowing you to understand your vehicles OBD-II sytem, plus what to do when the "Check Engine" light comes on, from reading the code to diagnosing and fixing the problem. Includes a comprehensive list of computer codes. Computer-controlled car repair made easy! For all car and light truck models manufactured since 1996. Understand your vehicle's On-Board Diagnostic system How to deal with that "Check Engine" light--from reading the code to diagnosing and fixing the problem Comprehensive computer codes list Diagnostic tools: Powertrain management fundamentals OBD-II "monitors" explained Generic trouble codes that cover all models! Manufacturer-specific trouble codes for GM, Ford, Chrysler, Toyota/Lexus and Honda/Acura vehicles Let your car's computer help you find the problem! Component replacement procedures Glossary and acronym list Fully illustrated with over 250 photographs and drawings

With Advanced Automotive Welding, beginner to intermediate skill-level welders will be able to improve and complete more advanced projects. Using the techniques revealed in this book, you will be able to fabricate body panels, frames, and any number of structural and functional automotive components, and perform structural repair. Take your welding skills to the next level with this new Pro Series title.

Finally, a rebuild and performance guide for GM 6.2 and 6.5L diesel engines! In the late 1970s

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and early 1980s, there was considerable pressure on the Detroit automakers to increase the fuel efficiency for their automotive and light-truck lines. While efficient electronic engine controls and computer-controlled gas engine technology was still in the developmental stages, the efficiency of diesel engines was already well documented during this time period. As a result, General Motors added diesel engine options to its car and truck lines in an attempt to combat high gas prices and increase fuel efficiency. The first mass-produced V-8 diesel engines of the era, the 5.7L variants, appeared in several General Motors passenger-car models beginning in 1978 and are often referred to as the Oldsmobile Diesels because of the number of Oldsmobile cars equipped with this option. This edition faded from popularity in the early 1980s as a result of falling gas prices and quality issues with diesel fuel suppliers, giving the cars a bad reputation for dependability and reliability. The 6.2L appeared in 1982 and the 6.5L in 1992, as the focus for diesel applications shifted from cars to light trucks. These engines served faithfully and remained in production until 2001, when the new Duramax design replaced it in all but a few military applications. While very durable and reliable, most of these engines have a lot of miles on them, and many are in need of a rebuild. This book will take you through the entire rebuild process step by step from diagnosis to tear down, inspection to parts sourcing, machining, and finally reassembly. Also included is valuable troubleshooting information, detailed explanations of how systems work, and even a complete Stanadyne DB2 rebuild section to get the most out of your engine in the modern era. If you have a 6.2, or 6.5L GM diesel engine, this book is a must-have item for your shop or library. Covers most anti-lock braking systems currently in use. Includes ABS theory, troubleshooting and a thorough description of how each system works.

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Ford FE engines, which were manufactured from the late 1950s all the way through the mid-1970s, were designated as the large-displacement engines in the Ford lineup. FE means Ford Edsel, and reflects an era when Ford sought to promote the Edsel name. The design of these engines was implemented to increase displacement over its predecessor, the Y-Block engines of the previous decade. Early models were fairly modest in displacement, as were most big-blocks of the era, but they grew quickly to fill the needs of rapidly changing chassis requirements and consumer demand for larger vehicles. As it grew, the FE engine performed admirably as a heavy passenger car and light truck engine. It also became quite accomplished in performance circles, winning the 24 Hours of Le Mans, as well as powering Ford's muscle car and drag racing programs in the mid- to late 1960s. In this book, you will learn everything you need to know to rebuild one of these legendary engines. CarTech's unique Workbench series format takes you step-by-step through the entire rebuilding process. Covered are engine identification and selection, disassembly, cleaning, parts analysis and assessment, machine shop processes, replacement parts selection, re-assembly and start-up/break-in techniques. Along the way you find helpful tips on performance upgrades, trouble spots to look for, special tools required, and professional builder's tips. FE master, owner of Survival Motorsports, and veteran author Barry Rabortnick shares all of his tricks and secrets on building a durable and reliable FE engine. Whether you are simply rebuilding an old truck for reliable service use, restoring a 100-point show car, or building the foundation for a high-performance street and strip machine, this book will be an irreplaceable resource for all your future FE engine projects. Takes engine-tuning techniques to the next level. It is a must-have for tuners and calibrators and a valuable resource for anyone who wants to make horsepower with a fuel-injected,

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electronically controlled engine.

Series 78, 79, 100 & 105 6 & 8-cylinder engines with 4.5L & 4.7L petrol and 4.2L diesel.

A four-century account of the development of the Colesville community, this book covers people and events of this crossroads town from pre-settlement through its early settlers to the present.

How to Rebuild and Modify High-Performance Manual Transmissions breaks down the disassembly, inspection, modification/upgrade, and rebuilding process into detailed yet easy-to-follow steps consistent with our other Workbench series books. The latest techniques and insider tips are revealed, so an enthusiast can quickly perform a tear-down, identify worn parts, select the best components, and successfully assemble a high-performance transmission.

Transmission expert and designer Paul Cangialosi shares his proven rebuilding methods, insight, and 27 years of knowledge in the transmission industry. He guides you through the rebuilding process for most major high-performance transmissions, including BorgWarner T10 and super T10, GM/Muncie, Ford Toploader, and Tremec T5. This new edition also contains a complete step-by-step rebuild of the Chrysler A833 transmission.

Extracting maximum torque and horsepower from engines is an art as well as a science. David Vizard is an engineer and more aptly an engine building artist who guides the reader through all the aspects of power production and high-performance engine building. His proven high-performance engine building methods and techniques are revealed in this all-new edition of How to Build Horsepower. Vizard goes into extreme depth and detail for drawing maximum performance from any automotive engine. The production of power is covered from the most logical point from the air entering the engine all the way to spent gasses leaving through the

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exhaust. Explained is how to optimize all the components in between, such as selecting heads for maximum flow or port heads for superior power output, ideal valvetrain components, realizing the ideal rocker arm ratios for a particular application, secrets for selecting the best cam, and giving unique insight into all facets of cam performance. In addition, he covers how to select and setup superchargers, nitrous oxide, ignition and other vital aspects of high-performance engine building.

Renowned engine builder and technical writer David Vizard turns his attention to extracting serious horsepower from small-block Chevy engines while doing it on a budget. Included are details of the desirable factory part numbers, easy do-it-yourself cylinder head modifications, inexpensive but effective aftermarket parts, the best blocks, rotating assembly (cranks, rods, and pistons), camshaft selection, lubrication, induction, ignition, exhaust systems, and more. Don't these boys get it? How many times must they get into trouble before they catch on? Best friends William and Thomas are back at it again with even more action and adventure. The poor community of Itchygooney isn't safe when William has a plan. This time there's an attack drone, a ghostly rocking chair, a slam-dunking wizard, and a UFO. Will these boys ever be stopped? Let's hope not! Back 4 More is the fourth book in the ongoing I Told You So series of humorous stories shared in short standalone bursts. If they were any longer you couldn't handle it!

Suzuki Samurai & Sidekick / GEO Tracker 1986-96 Shop Manual Haynes 268 pgs., 643 b&w ill. Multi-time author and well-regarded performance engine builder/designer John Baechtel has assembled the relevant mathematics and packaged it all together in a book designed for automotive enthusiasts. This book walks readers through the

complete engine, showcasing the methodology required to define each specific parameter, and how to translate the engineering math to hard measurements reflected in various engine parts. Designing the engine to work as a system of related components is no small task, but the ease with which Baechtel escorts the reader through the process makes this book perfect for both the budding engine enthusiast and the professional builder.

Introduced in 1997, the GM LS engine has become the dominant V-8 engine in GM vehicles and a top-selling high-performance crate engine. GM has released a wide range of Gen III and IV LS engines that deliver spectacular efficiency and performance. These compact, lightweight, cutting-edge pushrod V-8 engines have become affordable and readily obtainable from a variety of sources. In the process, the LS engine has become the most popular V-8 engine to swap into many American and foreign muscle cars, sports cars, trucks, and passenger cars. To select the best engine for an LS engine swap, you need to carefully consider the application. Veteran author and LS engine swap master Jefferson Bryant reveals all the criteria to consider when choosing an LS engine for a swap project. You are guided through selecting or fabricating motor mounts for the project. Positioning the LS engine in the engine compartment and packaging its equipment is a crucial part of the swap process, which is comprehensively covered. As part of the installation, you need to choose a transmission crossmember that fits the engine and vehicle as well as selecting an oil

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pan that has the correct profile for the crossmember with adequate ground clearance. Often the brake booster, steering shaft, accessory pulleys, and the exhaust system present clearance challenges, so this book offers you the best options and solutions. In addition, adapting the computer-control system to the wiring harness and vehicle is a crucial aspect for completing the installation, which is thoroughly detailed. As an all-new edition of the original top-selling title, *LS Swaps: How to Swap GM LS Engines into Almost Anything* covers the right way to do a spectrum of swaps. So, pick up this guide, select your ride, and get started on your next exciting project.

In *How to Super Tune and Modify Holley Carburetors*, best selling author Vizard explains the science, the function, and most importantly, the tuning expertise required to get your Holley carburetor to perform its best for your performance application. An extraordinary and rare insight into how a few determined entrepreneurs created an icon... - C. K. Prahalad

The targets were stupendous and considered unachievable by almost everyone. Slightly over two years to find a suitable partner, finalize all legal documentation, get governmental approval to these agreements as well as to the investment proposals, build a factory, develop a supplier base to meet localization regulations, create a sales and service network, and develop and launch a peoples car that would sell 100,000 a year, in a sector where Indian expertise was limited. And to do this as a public sector company, having to follow all governmental systems and procedures, and having to please both its masters in the government and Suzuki Motor

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Corporation. However, the Maruti project succeeded, and in ways that were unimaginable in 1983. The car revolutionized the industry and put a country on wheels. Suddenly, ordinary middle-class men and women could aspire to own a reliable, economical and modern car, and the steep sales targets were easily met. Twenty-six years later, the company, now free of government controls and facing competition from the world's major manufacturers who have entered the Indian market, still leads the way. Not only that, cars made by Maruti can be seen in all continents. By any yardstick, it is an incredible story, involving grit, management skill and entrepreneurship of a high order. R.C. Bhargava, who was at the helm of the company, and is currently its chairman, co-writing with senior journalist and author Seetha, shows how it was done in this riveting account of a landmark achievement.

Automotive technology.

When considering how well modern cars perform in many areas, it is easy to forget some of the issues motorists had on a regular basis 40+ years ago. Cars needed maintenance regularly: plugs and points had to be replaced on a frequent basis, the expected engine life was 100,000 miles rather than double and triple the expectation that you see today, and an everyday hassle, especially in warm climates, was being the victim of an overheating car. It was not uncommon on a hot day to see cars stuck in traffic, spewing coolant onto the ground with the hoods up in a desperate attempt to cool off. Fast-forward to today, and it's easy to forget that modern cars even have



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coolant. The temp needle moves to where it is supposed to be and never moves again until you shut the car off. For drivers of vintage cars, this level of reliability is also attainable. In *High-Performance Automotive Cooling Systems*, author Dr. John Kershaw explains the basics of a cooling system operation, provides an examination of coolant and radiator options, explains how to manage coolant speed through your engine and why it is important, examines how to manage airflow through your radiator, takes a thorough look at cooling fans, and finally uses all this information in the testing and installation of all these components. Muscle cars and hot rod engines today are pushed to the limit with stroker kits and power adders straining the capabilities of your cooling system to extremes never seen before. Whether you are a fan of modern performance cars or a fan of more modern performance in vintage cars, this book will help you build a robust cooling system to match today's horsepower demands and help you keep your cool.

Welding is an art and skill that's essential for automotive fabrication, repair, and vehicle upgrades, but it is also an important skill for countless household projects and industries. Some books show merely basic welding techniques with steel and cast iron. But this isn't your run-of-the-mill introductory welding book. In this revised edition of the previous title, *Advanced Automotive Welding*, Jerry Uttrachi, past president of the American Welding Society, does show you how to perform basic welding procedures with steel and cast iron. But he also reveals advanced welding techniques and the use

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of aluminum, titanium, magnesium, stainless steel, and other specialty materials. Projects and techniques in this book focus on automotive applications but can also be used for welding a bicycle frame, welding a steel grill, or repairing the frame for a garden bench. TIG, oxyacetylene, arc, and wire-feed welding processes are covered, but special coverage is provided for stick and MIG. Welding butt and V-joints is explained plus welding more complex joints, including J- and U-joints, is also shown. Step-by-step instruction and exceptional detail give you the necessary information to tackle and complete complex welding jobs. Popular automotive projects, such as welding an electric fuel pump into an aluminum tank, repairing chromemoly suspension arms, and welding in floorpans, are thoroughly covered. And when it comes to repairing household items, specific projects such as repairing and modifying the steel tubing on an exercise machine, repairing a decorative bench, and more are covered. Rather than take a project to a shop, you can now do the job at home. Whether you're new to welding or a veteran welder looking to work with special materials or involved in a special project, you will find indispensable information within the pages of this book. Now you can confidently weld with steel, cast iron, aluminum, anodized steel, titanium, magnesium, and other specialty metals.

To extract maximum performance, an engine needs an efficient, well-designed, and properly tuned exhaust system. In fact, the exhaust system's design, components, and materials have a large impact on the overall performance of the

engine. Engine builders and car owners need to carefully consider the exhaust layout, select the parts, and fabricate the exhaust system that delivers the best performance for car and particular application. Master engine builder and award-winning writer Mike Mavrigian explains exhaust system principles, function, and components in clear and concise language. He then details how to design, fabricate, and fit exhaust systems to classic street cars as well as for special and racing applications. Air/exhaust-gas flow dynamics and exhaust system design are explained. Cam duration and overlap are also analyzed to determine how an engine breathes in air/fuel, as the exhaust must efficiently manage this burned mixture. Pipe bending is a science as well as art and you're shown how to effectively crush and mandrel bend exhaust pipe to fit your header/manifold and chassis combination. Header tube diameter and length is taken into account, as well as the most efficient catalytic converters and resonators for achieving your performance goals. In addition, Mavrigian covers the special exhaust system requirements for supercharged and turbocharged systems. When building a high-performance engine, you need a high-performance exhaust system that's tuned and fitted to that engine so you can realize maximum performance. This comprehensive book is your guide to achieving ultimate exhaust system performance. It shows you how to fabricate a system for custom applications and

to fit the correct prefabricated system to your car. No other book on the market is solely dedicated to fabricating and fitting an exhaust system in high-performance applications.

Complete coverage for your Suzuki SV650, SV650S, SV650SA, and SV650A covering 645cc models for 1999 to 2008: - See more at: --Routine Maintenance and servicing --Tune-up procedures --Engine, clutch and transmission repair --Cooling system --Fuel and exhaust --Ignition and electrical systems --Brakes, wheels and tires --Steering, suspension and final drive --Frame and bodywork --Wiring diagrams --Reference Section With a Haynes manual, you can do it yourself...from simple maintenance to basic repairs. Haynes writes every book based on a complete teardown of the motorcycle. We learn the best ways to do a job and that makes it quicker, easier and cheaper for you. Our books have clear instructions and hundreds of photographs that show each step. Whether you're a beginner or a pro, you can save big with Haynes! --Step-by-step procedures --Easy-to-follow photos --Complete troubleshooting section --Valuable short cuts --Model history and pre-ride checks in color --Color spark plug diagnosis and wiring diagrams --Tools & workshop tips section in color

From 2001 to 2009, General Motors Corporation produced the powerful 8.1L Vortec/496 CID engine for trucks, boats, and more. From factory engines to

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aftermarket manufacture, Larry Hofer and Don Taylor cover the ins and outs of increasing horsepower and modifying torque for increased performance to suit your needs. This is the only book written about the 8.1L Vortec/496 CID engine. For every use you can think of, there is a different way to configure this engine. This book covers the block, oiling systems, cooling systems, cranks, rods and pistons, cylinder heads, computers, exhausts, and everything you want to know to select the right combination of components. Whether you're a truck or boat owner looking to modify an existing engine or a mechanic wanting to expand your knowledge of Chevy blocks, Chevrolet 8.1 L Vortec/496 Performance Manual has the information you need. Full-color photographs and additional sections and tips highlight options for advanced modifications. You won't be disappointed!

The model that truly launched BMW into the performance arena in the United States were the second generation of 3-series cars. Today, the E30 family of BMWs are both readily affordable, and are popular with enthusiasts wanting to personalize them.

Author Trenton McGee, 4x4 suspension expert and host of Outdoor Channels Off-Road Adventures, explains 4x4 suspension systems in an easy-to-understand manner. He gets specific on types of suspensions available from all the major manufacturers including Jeep, Toyota, Ford, Chevy, and Dodge. He goes into a

great level of detail on every different model, including early and modern model systems.

During the muscle car wars of the 1960s, Holley carburetors emerged as the carbs to have because of their easy-to-tune design, abundance of parts, and wide range of sizes. The legendary Double Pumper, the universal 600-cfm 1850 models, the Dominator, and now the Avenger have stood the test of time and are the leading carburetors in the high-performance engine market. To many enthusiasts, the operation, components, and rebuilding procedures remain a mystery. Yet, many carburetors need to be rebuilt and properly set up for a particular engine package. Veteran engine building expert and automotive author Mike Mavrigian guides you through each important stage of the rebuilding process, so you have the best operating carburetor for a particular engine and application. In addition, he explains carb identification as well as idle, mid-range and high-speed circuit operation, specialty tools, and available parts. You often need to replace gaskets, worn parts, and jets for the prevailing weather/altitude conditions or a different engine setup. Mavrigian details how to select parts then disassemble, assemble, and calibrate all of the major Holley carburetors. In an easy-to-follow step-by-step format, he shows you each critical stage for cleaning sensitive components and installing parts, including idle screws, idle air jets,

primary/secondary main jets, accelerator pumps, emulsion tubes, and float bowls. He also includes the techniques for getting all of the details right so you have a smooth-running engine. Holley carburetor owners need a rebuilding guide for understanding, disassembling, selecting parts, and reassembling their carbs, so the carb then delivers exceptional acceleration, quick response, and superior fuel economy. With *Holley Carburetors: How to Rebuild* you can get the carb set up and performing at its best. And, if desired, you can move to advanced levels of tuning and modifying these carbs. If you're looking for the one complete book that helps you quickly and expertly rebuild your Holley and get back on the road, this book is a vital addition to your performance library.

The Muncie 4-speeds, M20, M21, and M22 are some of the most popular manual transmissions ever made and continue to be incredibly popular. The Muncie was the top high-performance manual transmission GM offered in its muscle cars of the 60s and early 70s. It was installed in the Camaro, Chevelle, Buick GS, Pontiac GTO, Olds Cutlass, and many other classic cars. Many owners want to retain the original transmission in their classic cars to maintain its value.

Transmission expert and veteran author Paul Cangialosi has created an indispensable reference to Muncie 4-speeds that guides you through each crucial stage of the rebuild process. Comprehensive ID information is provided, so you

can positively identify the cases, shafts, and related parts. It discusses available models, parts options, and gearbox cases. Most important, it shows how to completely disassemble the gearbox, identify wear and damage, select the best parts, and complete the rebuild. It also explains how to choose the ideal gear ratio for a particular application. Various high-performance and racing setups are also shown, including essential modifications, gun drilling the shafts, cutting down the gears to remove weight, and achieving race-specific clearances. Muncie 4-speeds need rebuilding after many miles of service and extreme use. In addition, when a muscle car owner builds a high-performance engine that far exceeds stock horsepower, a stronger high-performance transmission must be built to accommodate this torque and horsepower increase. No other book goes into this much detail on the identification of the Muncie 4-speed, available parts, selection of gear ratios, and the rebuild process.

While millions of Ford rear-wheel-drive cars are equipped with the durable and simple C4 and C6 transmissions of the 1960s, early in the 1980s Ford replaced those old designs with the AOD transmission for a new generation of cars. Overdrive gears, once popular before WWII, were now becoming popular again, as manufacturers were under increasing pressure to raise fuel economy to meet ever more demanding EPA standards. A nice byproduct of that was more



comfortable cruising speeds, where your engine didn't have to work so hard in addition to getting better fuel economy. In *Ford AOD Transmissions: Rebuilding and Modifying the AOD, AODE and 4R70W*, author George Reid walks you through the process step-by-step, from removing the transmission from the vehicle, to complete disassembly and cleaning, to careful reassembly, to proper re-installation and road testing. Performance modifications are also covered, as well as an ID guide for various model numbers, evolutionary design changes, shift kit installation, and torque converter selection. This book is ideal for people who already have one of these transmissions in their car, as well as enthusiasts who would like to swap one of these more modern units into an older chassis to get all the benefits of overdrive. If you plan on researching or working on any one of these overdrive models, this book is a vital addition to your workbench or library.

Author Vizard covers blending the bowls, basic porting procedures, as well as pocket porting, porting the intake runners, and many advanced procedures. Advanced procedures include unshrouding valves and developing the ideal port area and angle.

Machining is an essential part of high-performance engine building and stock rebuilding, as well as certain servicing procedures. Although you may not own

the expensive tooling and machining to perform all or any of the machining required for a quality build, you need to understand the principles, procedures, and goals for machining, so you can guide the machining process when outsourced. Classic and older engines typically require extensive machining and almost every major component of engine, including block, heads, intake, crankshaft, and pistons, require some sort of machining and fitment. A detailed, authoritative, and thorough automotive engine-machining guide for the hard-core enthusiast has not been available until now. Mike Mavrigian, editor of Engine Building Professional, walks you through each important machining procedure. A stock 300-hp engine build has far different requirements than a 1,000-hp drag race engine, and Mavrigian reveals the different machining procedures and plans according to application and engine design. The author also shows you how to inspect, measure, and evaluate components so you can provide astute guidance and make the best machine work choices. Machining procedures included are cylinder boring, align boring/honing, decking, valveseat cutting, cam tunnel boring, and a multitude of other services. In addition, multi-angle valve jobs, setting the valveseats, altering rocker arm ratio, re-conditioning connecting rods, and machining and matching valvetrain components are also covered. Whether you're an enthusiast engine builder or prospective machining student who wants

to pursue a career as an automotive machinist, this book will provide insight and in-depth instruction for performing the most common and important machining procedures.

If there is one thing Ford enthusiasts have learned over the years, deciphering which Ford parts work with which Ford engines is a far more difficult task than with many other engine families. Will Cleveland heads fit on my Windsor block? Can I build a stroker motor with factory parts? Can I gain compression by using older-model cylinder heads, and will it restrict flow? Is there a difference between Windsor 2-barrel and 4-barrel heads? These are just a few examples of common questions Ford fans have. These and many other questions are examined in this all-new update of a perennial best seller. Thoroughly researched and, unlike previous editions, now focused entirely on the small-block Windsor and Cleveland engine families, Ford Small Block Engine Parts Interchange includes critical information on Ford's greatest small-block engines and goes into great detail on the highly desirable high-performance hardware produced throughout the 1960s, 1970s, and 1980s. By combining some of the best parts from various years, some great performance potential can be unlocked in ways Ford never offered to the general public. Following the advice in Ford Small-Block Engine Parts Interchange, these engine combinations can become reality. You will find

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valuable information on cranks, blocks, heads, cams, intakes, rods, pistons, and even accessories to guide you through your project. Author George Reid has once again done extensive research to accurately deliver a thorough and complete collection of Ford small-block information in this newly revised edition. Knowing what internal factory engine parts can be used across the wide range of production Ford power plants is invaluable to the hot rodder and swap meet/eBay shopper. Whether building a stroker Cleveland or a hopped-up Windsor, this book is an essential guide.

Written for the do-it-yourselfer, good enough for the pro. Includes everything you wish to know about your vehicles heating and air conditioning. From simple adjustments, to complete tune-ups and troubleshooting.

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