

Глава 1. ОБЩИЕ СВЕДЕНИЯ ОБ АВТОМОБИЛЕ

1.1. ОПИСАНИЕ КОНСТРУКЦИИ

В данной книге рассмотрены особенности устройства, эксплуатации, диагностики неисправностей, технического обслуживания и ремонта автомобилей Opel Astra и Zafira, оснащенных бензиновыми двигателями объемом 1,4, 1,6 и 1,8 литра.

Основное внимание уделено регулярному техническому обслуживанию, выявлению и устранению возможных неисправностей и уходу за различными агрегатами автомобиля.

Автомобиль Opel Astra второго поколения (Astra G) впервые появился в продаже в 1998 году. Он стал новым представителем компании Opel в наиболее динамичном и перспективном сегменте С рынка легковых автомобилей (по европейской классификации). Автомобиль предлагался с четырьмя типами кузовов: трех- и пятидверный хэтчбек, седан и универсал (Opel Astra Caravan). Позже была представлена Astra с кузовом купе и кабриолет, но они имели весьма существенные отличия от базовой модели.

Автомобили имеют переднеприводную компоновку с поперечно расположенным двигателем, независимую подвеску переднюю и полунезависимую подвеску задних колес, рулевой механизм типа «шестерня-рейка», тормозную систему с диагональным распределением контуров и АБС (на части автомобилей). Конструктивно автомобиль выполнен достаточно традиционно для этого класса, поэтому ждать от него каких-либо изысков в части поведения и эксплуатации не приходится, все в меру комфортно, удобно и динамично. Единственное необычное решение — это применение электроусилителя для создания давления в системе гидроусилителя рулевого управления. Это позволяет не отбирать мощность двигателя без необходимости, например при движении по прямой, а также сократить количество трубопроводов, установленных непосредственно на рулевой рейке. При этом следует заметить, что расположение бачка гидроусилителя на рулевой рейке осложняет контроль и в случае необходимости корректировку уровня жидкости в системе.

Большое количество вариантов кузовов, двигателей и дополнительного оснащения предоставляет покупателю широкое возможности для выбора в соответствии с его потребностями и финансовыми возмож-

ностями. Однако подобное многообразие в совокупности с восточной модернизацией фирмой Opel выпускаемых автомобилей вызывает определенные сложности в ремонте и покупке запасных частей. К сожалению, Astra не входит в число самых надежных автомобилей, особенно с увеличением пробега, но с учетом ее более низкой стоимости, чем у конкурентов, высокой ремонтопригодности и доступности большинства запасных частей ее можно назвать весьма разумным выбором.

В 1999 году на платформе Astra G был создан однообъемный Opel Zafira первого поколения (Zafira A). Наличие общей платформы обеспечило идентичность кодовой и агрегатной частей этих автомобилей. Zafira создавалась, в первую очередь, как семейный автомобиль, и в этом качестве у нее не так уж и много конкурентов. При скромных внешних габаритах она может вместить до семи пассажиров. Сиденье третьего ряда складным складным. Однако стоит заметить, что при разложенных обоих сиденьях третьего ряда места для багажа практически не остается. Все вышесказанное по поводу преимуществ и недостатков модели Astra можно смело отнести и к модели Zafira с учетом того, что выбор в классе подобных автомобилей гораздо более ограничен.

Кроме того, рассматриваемые автомобили выпускались и под другими марками и названиями для рынков отдельных стран, некоторые из которых можно встретить и в России. Традиционно большинство автомобилей Opel с правым расположением органов управления носит марку Vauxhall и производится в Англии, названия моделей соответствуют аналогичным моделям марки Opel. При этом за исключением расположения органов управления и связанных с этим незначительных изменений автомобили полностью идентичны рассматриваемым. Для рынка Японии выпускался автомобиль Subaru Traviq. Этот автомобиль полностью аналогичен модели Vauxhall Zafira, но оснащался только самым мощным мотором объемом 2,2 литра. Некоторое время назад СП «GM АвтоВАЗ» выпускало для России автомобили Chevrolet Viva, представляющие собой не что иное, как Opel Astra с кузовом седан, оснащенные двигателем 1,8 литра.

1.2. ГАБАРИТНЫЕ РАЗМЕРЫ АВТОМОБИЛЯ

Таблица 1.1

Параметры	Astra			Zafira
	Хэтчбек (3- и 5-дверный)	Седан	Универсал	
Длина	4 110	4 250	4 250	4 315
Ширина	1 710		1 740	
Высота	1 420		1 310	
Колесная база	2 610			2 695
Колес передних колес	1 485			
Колес задних колес	1 460			

Astra 2006 Workshop Manual

Cristina I. Tica, Debra L. Martin



Astra 2006 Workshop Manual:

Pemeliharaan Sasis Sepeda Motor SMK/MAK Kelas XI. Program Keahlian Teknik Otomotif. Kompetensi Keahlian Teknik dan Bisnis Sepeda Motor (Edisi Revisi) Z. Furqon, S.T., Drs. Joko Pramono, 2021-04-13 Buku yang berjudul Pemeliharaan Sasis Sepeda Motor SMK MAK Kelas XI ini dapat hadir sebagai penunjang pembelajaran pada Sekolah Menengah Kejuruan Kompetensi Keahlian Teknik dan Bisnis Sepeda Motor Buku ini berisi pengetahuan Teknik dan Bisnis Sepeda Motor yang mengacu pada Kurikulum 2013 revisi tahun 2017 Materi yang dibahas dalam buku ini meliputi Sistem rem sepeda motor Pelek sepeda motor Jenis ban sepeda motor Sistem suspensi dan kemudi sepeda motor Rantai dan rangka sepeda motor Berdasarkan materi yang telah disajikan para siswa diajak untuk melakukan aktivitas HOTS Higher Order Thinking Skills dengan cara menanya mengeksplorasi mengamati mengasosiasikan dan mengomunikasikan Buku ini dilengkapi dengan latihan soal berupa pilihan ganda esai dan tugas proyek yang bertujuan untuk mengukur kemampuan siswa dalam menguasai materi sesuai kompetensi dasar dan kompetensi inti Buku ini telah disesuaikan dengan tuntutan kompetensi SMK MAK di bidangnya Dengan demikian kami berharap siswa mampu berkompetisi di dunia kerja ,

Cumulated Index to the Books, 1999 **Pemeliharaan Sasis dan Pemindah Tenaga Kendaraan Ringan SMK/MAK Kelas XII. Program Keahlian Teknik Otomotif. Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif (Edisi Revisi)** Z. Furqon, S.T., Drs. Joko Pramono, 2021-04-13 Buku yang berjudul Pemeliharaan Sasis dan Pemindah Tenaga Kendaraan Ringan SMK MAK Kelas XII ini hadir sebagai penunjang pembelajaran pada Sekolah Menengah Kejuruan Teknik Otomotif Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif Buku ini berisi materi pembelajaran yang membekali para siswa dengan pengetahuan dan keterampilan dalam dunia otomotif yang mengacu pada Kurikulum 2013 revisi tahun 2017 Materi yang dibahas dalam buku ini meliputi beberapa hal berikut Mendiagnosis kerusakan kopling Mendiagnosis kerusakan transmisi Mendiagnosis kerusakan poros Mendiagnosis kerusakan sistem rem Mendiagnosis kerusakan pada sistem suspensi Mendiagnosis kerusakan pada sistem kemudi Mendiagnosis pelek Mengevaluasi perbaikan sasis dan pemindah tenaga Berdasarkan materi yang telah disajikan para siswa diajak untuk melakukan aktivitas HOTS Higher Order Thinking Skills dengan cara menanya mengeksplorasi mengamati mengasosiasikan dan mengomunikasikan Buku ini dilengkapi dengan latihan soal berupa pilihan ganda esai dan tugas proyek Hal ini bertujuan untuk mengukur kemampuan siswa dalam memahami materi Selain itu buku ini juga dilengkapi dengan info untuk menambah pengetahuan para siswa Kebutuhan akan buku ini sejalan dengan tuntutan kompetensi SMK MAK bidang teknik otomotif Dengan demikian kami berharap bahwa siswa dapat mencapai kompetensi yang diharapkan dan lulusan SMK MAK dapat mempersiapkan diri dengan baik ketika memasuki dunia kerja *Aerospace Robotics III* Jerzy Sasiadek, 2018-11-11 This book includes extended versions of original works on aerospace robotics presented at the Conference on Aerospace Robotics CARO in Warsaw It presents recent advances in aerospace robotics such as manipulators which are widely used in space for orbital operations for example the

Mobile Servicing System on the International Space Station and the Shuttle Remote Manipulator System Such manipulators are operated by astronauts and mounted on large platforms making the influence of manipulator motion on the state of the platform insignificant Application of manipulators for capture maneuvers in unmanned On Orbit Servicing or Active Debris Removal missions requires reliable control algorithms that take into account the free floating nature of the manipulator equipped spacecraft As such the book presents possibilities for using space manipulators for exploration and a variety of space operations Further it discusses new methods for the control of autonomous unmanned aerial vehicles UAV using vision systems and sensor fusion methodologies Such autonomous flying vehicles could be used for materials deliveries and emergencies as well as surveying and servicing

Pemeliharaan Mesin Kendaraan Ringan SMK/MAK Kelas XI: Program Keahlian Teknik Otomotif. Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif (Edisi Revisi). Z. Furqon, S.T. ,Drs. Joko Pramono,2021-04-13 Buku yang berjudul Pemeliharaan Mesin Kendaraan Ringan Kelas XI ini dapat hadir sebagai penunjang pembelajaran pada Sekolah Menengah Kejuruan Program Keahlian Teknik Otomotif Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif Buku ini berisi pengetahuan di bidang Teknologi dan Rekayasa yang mengacu pada Kurikulum 2013 revisi tahun 2017 Materi yang dibahas dalam buku ini meliputi Perawatan sistem pelumasan dan sistem pendinginan Perawatan kendaraan ringan pada sistem bahan bakar bensin Perawatan Engine Management System EMS Perawatan kendaraan ringan pada sistem bahan bakar diesel Hasil perawatan berkala mesin kendaraan ringan Berdasarkan materi yang telah disajikan para siswa diajak untuk melakukan aktivitas HOTS Higher Order Thinking Skills dengan cara menanya mengeksplorasi mengamati mengasosiasikan dan mengomunikasikan Buku ini dilengkapi dengan latihan soal berupa pilihan ganda esai dan tugas proyek yang bertujuan untuk mengukur kemampuan siswa dalam menguasai materi sesuai kompetensi dasar dan kompetensi inti Buku ini telah disesuaikan dengan tuntutan kompetensi SMK MAK di bidangnya Dengan demikian kami berharap siswa mampu berkompetisi di dunia kerja

The Cumulative Book Index ,1999
Cars & Parts ,1984 **Holden Astra & Zafira Automotive Repair Manual** A. K. Legg,Martynn Randall,2006-01-01
Human-Computer Interaction - INTERACT 2007 Cecília Baranauskas,Philippe Palanque,Julio Abascal,Simone Diniz Junqueira Barbosa,2007-09-07 This book is part of a two volume work that constitutes the refereed proceedings of the 11th IFIP TC13 International Conference on Human Computer Interaction INTERACT 2007 held in Rio de Janeiro Brazil in September 2007 It covers tangible user interfaces and interaction cultural issues in HCI safety security privacy and usability visualizing social information online communities and e learning children games and the elderly as well as software engineering and HCI The Mirror Margaret Safo (Mrs.),2006-12-16 *Fussverkehr* Ernst Bosina,Mark Meeder,Ulrich Weidmann,2025-01-31 Personenverkehr Fussg nger Fussverkehrsanlagen Fusswegnetz Personenfluss Mobilit t Verkehrstechnik Mobil zu sein war f r die Menschen zu allen Zeiten essentiell doch warum erlebt die Fussverkehrsforschung gerade in heutiger Zeit einen Aufbruch Die Gr nde sind vielfach Energieverbrauch Landverbrauch und Emissionen der

motorisierten Verkehrssysteme beeinträchtigen Nachhaltigkeit und Lebensqualität Immer mehr Menschen leben in immer grösseren Städten die Aussenräume werden immer dichter genutzt und bedingen eine entsprechende Gestaltung Darüber hinaus entdecken Klima und Städtebaupolitik den Fussverkehr als nachhaltige Mobilitätsform Die Forderung nach einer inklusiven und hindernisfreien Gesellschaft bedingt ein Design for All Das vorliegende Buch sammelt die Ergebnisse von rund 35 Jahren Forschung und Lehre und beschäftigt sich mit den zentralen Themenbereichen des Fussverkehrs Dazu gehören die Grundlagen des Personenflusses die Kapazitäts- und Qualitätsbeurteilung analoge und simulationsbasierte Berechnungsverfahren sowie deren praktische Anwendung die Gestaltung von Anlagen des öffentlichen Verkehrs städtebauliche Aspekte sowie die Hindernisfreiheit

Planetary Rovers Alex Ellery, 2015-12-30 This will be the only book on planetary rover development covering all aspects relevant to the design of systems *Automotive News*, 2007

Awareness Systems Panos Markopoulos, Wendy Mackay, 2009-06-22 People go about their daily tasks with an in-built awareness of their social and physical environments This awareness helps them to work cooperatively in groups coordinate actions and to maintain and enhance social communication with others Networked technology has extended the reach of people's awareness to remote and distributed groups and provided access to a much larger social network than was previously feasible Awareness systems that are designed to support people to build up maintain and make use of these extended networks are attracting the interest of industry and include buddy lists in instant messaging sustained audio video links active contact lists on mobile phones and so forth This book contains contributions from leading researchers in the field and looks at the design of awareness systems from theoretical foundations through to empirical studies and design concepts and will be of interest to practitioners and researchers in the field of HCI

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1978

Autocar, 2006

Novel Applications of Distributed Fiber-optic Sensing in Geotechnical Engineering Michael Iten, 2012

Bioarchaeology of Frontiers and Borderlands Cristina I. Tica, Debra L. Martin, 2019-08-21 Bioarchaeology of Frontiers and Borderlands presents a series of cases addressing how living on or interacting with the frontier can affect health and socioeconomic status The goal is to explore how people in the past might have maintained created or manipulated their identity while living in a place of liminality stuck in between worlds The zone of in-betweenness of demarcation between two or more spheres of influence is a very dynamic and potentially violent place This book aims to explore how different groups stuck in these zones were affected how they interacted with the different worlds and how they lived their lives on the edge

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1990

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