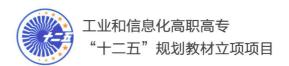
职业院校 汽车类"十二五"规划教材





泛车

英语(第2版)

Specialized English of Automobile (2nd Edition)

- ◎ 黄星 黄汽驰 主编
- ◎ 王应喜 陈静 副主编
- ◎ 田杰 主审

介绍汽车英语知识 提供汽车专业阅读材料 提高英文阅读、写作会话能力



V71 I0890172889



职业院校 汽车类"十二五"规划教材



工业和信息化高职高专 "十二五"规划教材立项项目



- ◎ 黄星 黄汽驰 主编
- ◎ 王应喜 陈静 副主编





人民邮电出版社 北京

图书在版编目(CIP)数据

汽车英语 / 黄星, 黄汽驰主编. — 2版. — 北京: 人民邮电出版社, 2013.2 职业院校汽车类"十二五"规划教材 工业和信息化

职业院校汽车类"十二五"规划教材 工业和信息化高职高专"十二五"规划教材立项项目 ISBN 978-7-115-29129-5

I. ①汽··· II. ①黄··· ②黄··· III. ①汽车工程-英语-高等职业教育-教材 IV. ①H31

中国版本图书馆CIP数据核字(2012)第185267号

内容提要

本书内容编排以实用为原则,贴近企业实际,尤其是课文以外的"练习"内容,着重突出专业英语的特色, 使读者既能学到英语,又能学到汽车方面的各类小知识。

本书包括 10 个单元,每个单元包括 4 部分内容:两篇与汽车紧密结合的实用英语阅读材料、专业术语、故障检修指南及汽车英语实用对话。通过以上内容设置,读者可轻松掌握汽车英语的相关知识,具备阅读汽车专业英语材料、进行简单专业会话的能力。

本书既可作为高职高专院校汽车类专业的英语教材,又可作为企业培训、上岗实训的教材,也可供相关技术人员学习参考。

工业和信息化高职高专"十二五"规划教材立项项目 职业院校汽车类"十二五"规划教材

汽车英语 (第2版)

- ◆ 主 编 黄 星 黄汽驰 副 主 编 王应喜 陈 静 主 审 田 杰 责任编辑 赵慧君
- ◆ 人民邮电出版社出版发行 北京市崇文区夕照寺街 14号邮编 100061 电子邮件 315@ptpress.com.cn 网址 http://www.ptpress.com.cn 三河市海波印务有限公司印刷
- ◆ 开本: 787×1092 1/16

印张: 15.25

2013年2月第2版

字数: 344 千字

2013年2月河北第1次印刷

ISBN 978-7-115-29129-5

定价: 32.00 元

读者服务热线: (010)67170985 印装质量热线: (010)67129223 反盗版热线: (010)67171154





近年来,由于汽车技术发展日新月异,汽车门类更新,样式更是五花八门。本教材无论是在内容的搭配,练习的编排,相关的配图,以及跟踪汽车术的发展都有些落伍,因而,有必要对本教材进行一次补充、修改及完善。

《汽车英语(第2版)》将继承《汽车专业英语》的精髓,以实用为主,突出动口动手的原则,保留其精华部分,并对所有章节的练习、图片进行修订,注重下列特性。

- 1. 认知练习, 真实有趣。第 2 版教材对每个单元中的练习部分进行了替换, 增加了 $2005\sim2011$ 年所生产的最新车型, 使得本练习更加新颖别致, 内容更引人入胜。
- 2. 更新选图,内容新颖。针对各类层次的学生、读者,以及相关学习者,第2版教材对汽车以结构、零部件图为主的认知部分进行了新的修订,以结构为主,工作原理为辅,雅俗共赏,简单实用,同时又不失为当今最为先进,技术含量非常高的汽车技术。
- 3. 精细调整,内容适度。依照教学反馈,第2版教材对几个单元进行部分修订和删减,以便能更加简洁明了,满足学生的快速认知需求。因此,教学内拉近了与企业岗位的距离,学生学完后,能直接实际应用于工作岗位上。

本书由长春汽车工业高等专科学校黄星、黄汽驰任主编,山东外贸职业学院王应喜、南京机电职业技术学院陈静任副主编。参加本书编写工作得还有王黎、魏巍、姜玉英。黄星对全书进行了最后的校对与修订。

我们还聘请了中国第一汽车集团公司人事部培训室主任田杰高级工程师为本书的主审;她有着 二十多年的相关技术经验;她对专业部分进行了认真的审核,在此深表感谢。

由于编者的水平与能力有限,书中的错误、疏漏在所难免,恳请广大读者、学者及专家批评与指正,编者在此深表谢意。

编者 2012年6月

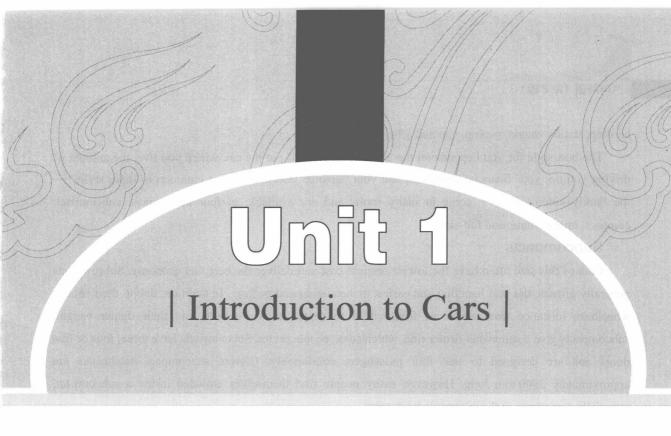


Unit 1	Introduction to Cars
Part I	Technical and Practical Reading
•	Passage A····
Ki	inds of Cars
Ne	ew Words
Ph	rases and Expressions
•	Passage B
Ту	pes and Recurrence of Maintenance
_	perations 8
Ne	w Words ······ 10
Ph	rases and Expressions11
Part II	Glance at the Structure of the
	Automobile ····· 12
Part III	Have a Try ······ 14
Tro	oubleshooting Guide ····· 14
Part IV	Listening and Speaking 16
Vis	iting the Car Company16
Unit 2	Introduction to Automobile
	Engine17
	Technical and Practical Reading 17
	assage A······17
	tine Construction (I)
	v Words 20
	ases and Expressions 21
• P	assage B·····24

Eı	ngine Construction (II) 2				
New Words ····					
Pł	nrases and Expressions2				
Part II	Glance at the Structure of the				
	Automobile2				
Part III	Have a Try3				
Tr	oubleshooting Guide3				
Tr	oubleshooting Engine Performance32				
Part IV	Listening and Speaking 32				
As	king for Opinions 32				
nit 3	Lubrication and Cooling				
	System 34				
Part I	Technical and Practical Reading 34				
•]	Passage A ······34				
Lu	brication System ····· 34				
Ne	w Words 37				
Phi	rases and Expressions 38				
• I	Passage B40				
Cod	oling System40				
Nev	w Words44				
Phr	ases and Expressions 45				
Part II	Glance at the Structure of the				
	Automobile ······46				
Part III	Have a Try48				
Tro	ubleshooting Guide48				

Part IV Listening and Speaking49	Unit 6 Introduction to Brake System · 8
Talking about Car Maintenance49	Part I Technical and Practical Reading 8
Unit 4 Introduction to Drive Train 51	• Passage A ······· 8′
Part I Technical and Practical Reading 51	Brake System (I) ····· 8'
• Passage A 51	New Words ·····9
Drive Train (I) 51	Phrases and Expressions9
New Words 55	• Passage B ······94
Phrases and Expressions 56	Brake System (II)94
• Passage B······ 58	New Words ·····9
Drive Train (II) 58	Phrases and Expressions 98
New Words ····· 62	Part II Glance at the Structure of the
Phrases and Expressions	Automobile98
Part II Glance at the Structure of the	Part III Have a Try 10
Automobile 64	Troubleshooting Guide 10
Part III Have a Try ······ 66	Part IV Listening and Speaking 101
Troubleshooting Guide	Repairing the Car 10
Part IV Listening and Speaking 68	Unit 7 Suspension System 103
Purchasing a Car in the Shop 68	Part I Technical and Practical Reading 103
Unit 5 Automotive Ignition System ··· 69	Passage A 103
Part I Technical and Practical Reading 69	Suspension Components 103
• Passage A	New Words ······ 107
Conventional Ignition System 69	Phrases and Expressions 108
New Words 74	• Passage B·····110
Phrases and Expressions 74	Suspension Types110
Passage B 77	New Words ·····113
Electronic Ignition System 77	Phrases and Expressions ······114
New Words ····· 80	Part II Glance at the Structure of the
Phrases and Expressions 81	Automobile 115
Part II Glance at the Structure of the	Part III Have a Try117
Automobile 82	Troubleshooting Guide ······117
Part III Have a Try84	Part IV Listening and Speaking119
Troubleshooting Guide ······ 84	In the Car Laboratory 119
Part IV Listening and Speaking 85	Unit 8 Automotive Steering
Issuing the Information about a New Car 85	System120
	Part I Technical and Practical Reading 120

● Passage A · · · · 120	Automobile ······ 149	
Types of Steering System ····· 120	Part III Have a Try152	
New Words ····· 123	Troubleshooting Guide 152	
Phrases and Expressions 124	Part IV Listening and Speaking 153	
• Passage B 127	Information about the Crash Sensor 153	
Power Steering System ····· 127	Unit 10 Introduction to Instrument	
New Words ······ 130	Cluster 155	
Phrases and Expressions ····· 130	Part I Technical and Practical Reading 155	
Part II Glance at the Structure of the	• Passage A 155	
Automobile ······ 131	Gauges and Warning Lamps 155	
Part III Have a Try ······134	New Words 158	
Troubleshooting Guide ······ 134	Phrases and Expressions 158	
Part IV Listening and Speaking 135	• Reading B 161	
Talking about the Steering System 135	Controls and Equipment 161	
Unit 9 Safety Airbag and Seatbelt	New Words 164	
System 137	Phrases and Expressions 165	
Part I Technical and Practical Reading ····· 137	Part II Glance at the Structure of the	
• Passage A	Automobile ······ 166	
Safety Airbag	Part III Have a Try169	
New Words 140	Troubleshooting Guide ······ 169	
Phrases and Expressions 141	Part IV Listening and Speaking 171	
• Passage B 144	Introduction to Gauges in Cars171	
Seatbelt 144	附录 1 Vocabulary173	
New Words147	附录 2 Phrases and Expressions 187	
Phrases and Expressions 148	附录 3 汽车专业缩略词解释 196	
Part II Glance at the Structure of the	附录 4 参考译文·······201	

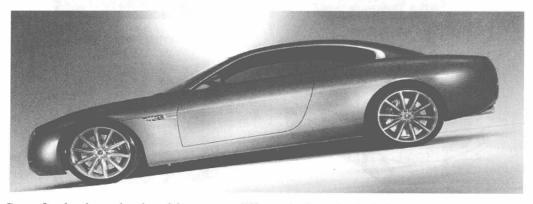




Technical and Practical Reading

Passage A

Kinds of Cars



Cars of today have developed into many different body styles befitting their varied uses. Some of these styles are listed below:

Three-door hatchback sedan, four-door sedan, five-door hatchback sedan, two-door hardtop, four-door



hardtop, station wagon, pickup, van and off-road sport cars.

The best style for you depends on the use to which you'll put the car, where you live, the amount of driving you do, your financial resources, and your personal tastes. The most common of these styles the family automobiles - come in many forms and are available in four basic sizes: subcompact, compact, intermediate, and full-size.

Subcompacts

Cars of this size often have the lowest original cost and deliver the best fuel economy. Subcompacts generally provide the best handling and easiest maneuvering and parking. In addition, due to their shorter wheelbase (distance from center of front wheel to center of rear wheel) and their lighter weight, subcompacts give a somewhat firmer ride, which some people prefer. Subcompacts have three, four or five doors and are designed to seat four passengers comfortably. Current subcompact hatchbacks are approximately 3900 mm long. However, many people find themselves crowded inside a subcompact, especially sometimes in the minuscule back seats.

Despite their impressive gas mileage figures, however, subcompact overall maintenance cost can sometimes run higher than their larger counterparts. This is due partly to the often cramped quarters in which engine parts are installed. Repairing parts cost more, too, particularly for the imported cars.

Examples of subcompact cars: Figure 1-1 Ford: Fiesta; Figure 1-2 Nissan: Micra; Figure 1-3 Volkswagen: Gol; Figure 1-4 Chery: QQ.



Figure 1-1 Ford: Fiesta



Figure 1-2 Nissan: Micra



Figure 1-3 Volkswagen: Gol



Figure 1-4 Chery: QQ

Compacts

These models are a little larger than subcompacts. They give additional room in the front and rear seats



as well as added crash-protection for passengers. Original cost is somewhat higher than that for the subcompacts. Fuel economy is comparable and maintenance access easier. Their somewhat roomier nature and better ride often make compacts the choice of the economy-minded driver. Compacts are approximately 4250 mm long in case of hatchbacks and 4 500 mm in the case of saloons and estate cars. Compacts have room for five adults and usually have 4-cylinder engine. These are the most popular vehicles in our country.

Examples of compact cars: Figure 1-5 Ford: Focus; Figure 1-6 Toyota: Corolla; Figure 1-7 Volkswagen: Sagetta; Figure 1-8 Volkswagen: Bora.



Figure 1-5 Ford: Focus



Figure 1-6 Toyota: Corolla



Figure 1-7 Volkswagen: Sagitar



Figure 1-8 Volkswagen: Bora

Intermediates

Also called mid-sized cars, intermediates provide what many consider to be the best trade-off between economy and comfort. Parking maneuverability and fuel economy are superior to the full-size models, while maintenance access, roominess and long-trip comfort are better than those of the compacts and subcompacts. Intermediates have room for five adults and a large trunk (boot). Engines are more powerful than compact cars and 6-cylinder engines are more common than in smaller cars. Car sizes vary from region to region; in Europe, large family cars are rarely over 4700 mm long, while in North America they may be well over 4800 mm.

Examples of intermediate cars: Figure 1-9 Toyota: Camery; Figure 1-10 FAW: Besturn; Figure 1-11 Volkswagen: Magotan and Figure 1-12 Passat.

Full-sizes

A full-size is typically a four-door car. These cars are the most powerful, with eight and twelve-cylinder engines, so-called gas guzzlers and have more facilities than smaller models. Interior roominess makes them the most comfortable cars for long trips. They're still readily available in the new car marketplace. Full-size cars may be well over 5000 mm long and are the roomiest vehicles.





Figure 1-9 Toyota: Camery



Figure 1-10 FAW: Besturn



Figure 1-11 Volkswagen: Magotan



Figure 1-12 Volkswagen: Passat

Examples of full-size cars: Figure 1-13 FAW: HQ3; Figure 1-14 Volkswagen: AudiA8; Figure 1-15 BMW 7 Series; Figure 1-16 Mercedes Benz S-Class.



Figure 1-13 FAW: HQ3



Figure 1-14 Volkswagen: AudiA8



Figure 1-15 BMW 7 Series



Figure 1-16 Mercedes Benz S-Class

Notes:

- 1. The best style for you depends on the use to which you'll put the car, where you live, the amount of driving you do, your financial resources, and your personal tastes. 最适合自己的款式取决于车的用途、居住地、用车次数、经济实力以及个人品位。
- 2. Their somewhat roomier nature and better ride often make compacts the choice of the economy-minded driver. 紧凑型汽车比较宽敞,行驶性能较佳,常常是具有经济头脑的驾车人员的选择。

- 3. Parking maneuvering, and fuel economy are superior to the full-size models, while maintenance access, roominess and long-trip comfort are better than those of the compacts and subcompacts. 停车操控性以及燃油经济性要优于大型汽车,而维修的便利性、车内宽敞度和长途旅行舒适性要好于紧凑型汽车和微型汽车。
- 4. These cars are the most powerful, with eight and twelve-cylinder engines, so-called gas guzzlers and have more facilities than smaller models. 这些汽车装有被称为"油老虎"的 8 缸和 12 缸发动机,动力最强劲,并且配置要比小型汽车更齐全。

New Words

befit [bi'fit] v. 适合,适宜

varied ['vεərid] a. 各种各样的

hatchback ['hæt∫'bæk] n. 有仓门式后背的汽车, 掀背车, 揭背式

sedan [si'dæn] n. (美) 轿车

hardtop [ha:dtop] n. 有金属顶盖的汽车

pickup ['pikAp] n. 皮卡, 小卡车

financial [fai'nænʃəl] a. 金融的, 财政的

subcompact ['sAb'kompækt] n. 超小型汽车

compact ['kompækt] a. 紧凑的,紧密的,简洁的

n. 紧凑型汽车

intermediate [,intə'mi:diət] a. 中级的, 中间的

n. 中型汽车

full-size ['ful'saiz] a. 全长的

n. 大型汽车

maneuvering [mə'nu:vərin] n. 操纵

wheelbase ['wi:lbeis] n. 前后轮之车轮轴距离, 轴距

minuscule [mi'nAskju:l] a. 微小的, 小写字的

counterpart ['kauntəpa:t] n. 相似之物

cramped [kræmpt] a. 狭窄的, 拥挤的

crash-protection [kræ∫prə'tek∫ən] n. 防撞击装置

trade-off [treido:f] n. 交易, 交换

comparable ['kompərəbl] a. 可比较的, 比得上的

roominess ['ru:minis] n. 宽敞, 广阔

trunk [trAŋk] n. (汽车后部) 行李箱

boot [bu:t] n. [英]汽车行李箱



choice [t∫ois] a. 上等的,精选的

n. 选择

guzzler ['gʌzlə] n. 油老虎

interior [in'tiəriə] a. 内部的

readily ['redili] ad. 迅速地, 轻易地

Phrases and Expressions

station wagon 小旅行车,旅行轿车

original cost 原始成本,原价,原值

fuel economy 节约燃料

gas mileage 一加仑汽油所行驶的里程

maintenance cost 维修费用,维修成本,保养费

be superior to 比更优越,优于,胜过

maintenance access 维修的便利性

4-cylinder engine 4 缸引擎

Chery 奇瑞, 奇瑞汽车

Toyota 丰田, 丰田汽车

FAW 一汽

Ford 福特,福特公司,福特汽车

Nissan 尼桑, 日产汽车, 日产

Volkswagen 大众,大众汽车,大众汽车公司

EXERCISE 1

Mark the following statements with T (True) or F (False) according to the passage.

- 1. Subcompacts often have the highest original cost and deliver the best fuel economy.
- 2. Compacts have space for four adults and usually have 8-cylinder engine.
- 3. Engines of intermediates are usually more powerful than compact cars.
- 4. Car sizes vary from region to region in Europe and North America according to the passage.
- 5. Full-size cars are the most powerful with eight and twelve-cylinder engines and have more facilities.

EXERCISE 2

	Translate i	the	foll	owing	phrases	into	Chinese	or	English.
--	-------------	-----	------	-------	---------	------	---------	----	----------

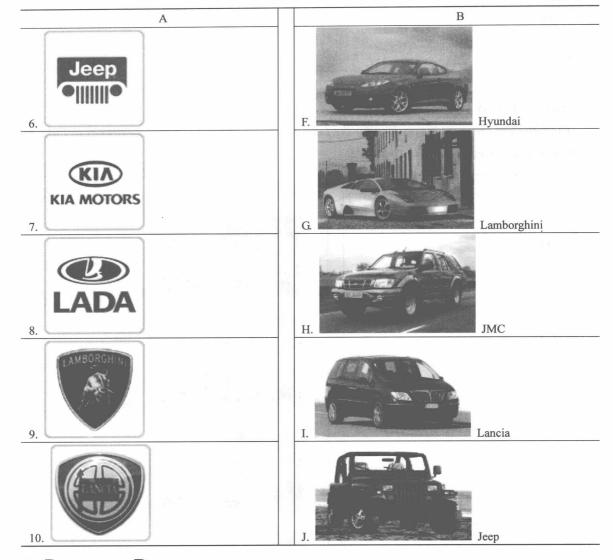
1. station wagon		
2	维修空间	
3. mid-sized cars		

4	一加仑汽油所行驶的里程	
5. original cost		
6	节约燃料	
7. a four-door car		
8.	4 缸引擎	
EXERCISE 3		
The following are some expressi	ions for the famous brands. Match t	the following brands in Column
A with their Chinese equivalents in C		Jenemany et annua viv Covania
A		В
HUMMER 1.	A. (2)	Infiniti
HYUNDAI 2.	В.	Jaguar
INFINITI 3.	C.	Kia
JMC JMC	D.	Lada
JAGUAR 5.	E.	Hummer

3.

5.

续表



Passage B

Types and Recurrence of Maintenance Operations

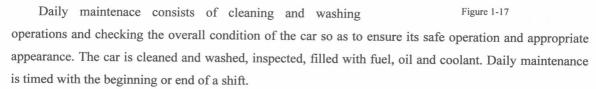


Maintenance is nothing more than cleaning and washing, troubleshooting, mounting-part tightening,

lubricating, filling, adjusting and other operations which are carried out, as a rule, without disassembling parts and taking them down.

Regulations divide maintenance into a number of types depending on their recurrence, scope of work and labour requirements involved in each particular case. See figure 1-17. These types are:

Daily maintenance, level 1 maintenance, level 2 maintenance and seasonal maintenance.



Level 1 maintenance calls for the repeating of all daily maintenance operations followed by a number of additional operations involving the tightening of mounting parts, lubricating, inspecting and adjusting of units and parts which are all carried out without dismounting and disassembling them.

Level 2 maintenance stipulates a repetition of level 1 maintenance in wake of which more inspections and adjustments follow which are extended in scope and require partial disassembling of units. Some of them are taken down from the car and tested on the test stands.

Seasonal maintenance is timed to be carried out twice a year, and involved in this case are operations associated with the seasonal changeover. Seasonal maintenance often coincides with level 2 maintenance. Specified for seasonal maintenance are commonly the following operations: washing the cooling system, changing the lubricant in the engine crankcase and in the oil baths of other units (fresh oil of a grade appropriate for the coming season should be used), checking the fuel system and washing the fuel tank. The cold-starting aid and the cab heater are tested for performance at the beginning of operation. See figure 1-18.

The recurrence of maintenance is decided by the kilometers logged by every car under given service conditions.

Diagnostics During Maintenance

Diagnostics of various kinds of cars aimed at assessing the technical condition of vehicles finds wide-spread application at garages. It is a systematic checkup of a vehicle's performance without taking its units apart, which is carried out with the aid of special equipment and furnishes unbiassed evidence of the vehicle's fitness for further service. Distinction is made between general diagnostics and piecemeal diagnostics. See figure 1-19.

The former serves to assess the condition of the units which are critical from the standpoint of safe driving. The latter is intended to gauge the condition of the units with the aim of finding out the causes of various troubles and determine the scope of maintenance and repair work to be done.









Figure 1-19

Notes:

- 1. Maintenance is nothing more than cleaning and washing, troubleshooting, mounting-part tightening, lubricating, filling, adjusting and other operations which are carried out, as a rule, without disassembling parts and taking them down. 汽车保养只不过是通常的车辆清洗、故障检修、零部件紧固、润滑、注 油、调整以及其他工序,这些操作都是在不拆卸和分解零部件的条件下进行的。
- 2. Daily maintenance is timed with the beginning or end of a shift. 日常保养定在出车时或收车时 讲行。
- 3. Level 1 maintenance calls for the repeating of all daily maintenance operations followed by a number of additional operations involving the tightening of mounting parts, lubricating, inspecting and adjusting of units and parts which are all carried out without dismounting and disassembling them. 一级保 养在重复所有日常保养的工作后还要进行若干其他的工作,包括零部件紧固、润滑、检查以及调整 汽车装置和部件,这些都是在不拆卸零部件情况下进行的。
- 4. Level 2 maintenance stipulates a repetition of Level 1 maintenance in wake of which more inspections and adjustments follow which are extended in scope and require partial disassembling of units. 二级保养规定在重复一级保养工作后扩大范围进行更多的检查和调整,需要拆卸部分装置。
- 5. Specified for seasonal maintenance are commonly the following operations: washing the cooling system, changing the lubricant in the engine crankcase and in the oil baths of other units (fresh oil of a grade appropriate for the coming season should be used), checking the fuel system and washing the fuel tank. 季节性保养通常包括如下工作: 洗刷冷却系统, 更换发动机曲轴箱润滑油和其他装置油 槽的机油(应该使用适合于下个季节的机油),检查燃油系统,洗刷燃油箱。
- 6. The recurrence of maintenance is decided by the kilometers logged by every car under given service conditions. 汽车保养周期由每辆车在特定行驶状况下行驶里程数而定。

New Words

maintenance ['meintinens] n. 维护, 保持, 维修 tightening ['taitnin] n. 上紧, 固定