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› Haynes Repair Manual for Kia Sephia (1994-2001), Spectra (2000-2009), and Sportage (2005-2010)

Haynes Sephia, Spectra, Sportage

Haynes Repair Manual for Kia Sephia (1994-2001), Spectra (2000-2009), and Sportage (2005-2010)

INTRODUCTION

This Haynes manual provides step-by-step instructions for the do-it-yourselfer, based on a complete disassembly of the vehicle. It offers specific and detailed guidance for performing tasks ranging from basic maintenance and troubleshooting to a complete engine overhaul.

Models and Model Years Covered:

- Kia Sephia: 1994-2001
- Kia Spectra/Spectra 5: 2000-2009
- Kia Sportage: 2005-2010 (Two-wheel drive & four-wheel drive)

Engine Types Covered:

- Gas: 1.6-litre SOHC 8 valve (B6) 4-cylinder
- Gas: 1.6-litre DOHC 16 valve (B6)
- Gas: 1.8-litre DOHC 16 valve (BP)
- Gas: 1.8-litre DOHC 16 valve (T8)
- Gas: 2.0-litre DOHC (Sportage 2007-2010) (G4GC)
- Gas: 2.0-litre DOHC (SULEV)
- Gas V6: 2.7L DOHC (G6BA)

Important Note:

This manual is intended for vehicles built to US specifications. While useful for similar products or systems in other markets, significant differences may exist, particularly concerning safety and emission control.

Exclusions: This manual does not cover Australian Mentor 1.5-litre SOHC & DOHC (B5), 2.0-litre Sportage 94-04 (FED), 1.6-litre SOHC (B6), or Australian Spectra with 1.8-litre DOHC (TE).

Kia

Sephia, Spectra & Sportage

1994 thru 2010 □ All models

Haynes Repair Manual

Based on a complete teardown and rebuild

54070



Includes essential information for today's more complex vehicles

Image: Front cover of the Haynes Repair Manual, displaying the title and covered models.

GENERAL REPAIR PROCEDURES

The manual is designed to guide users through various repair tasks with clarity and precision. It includes over 700 photos and illustrations to assist in understanding each procedure.

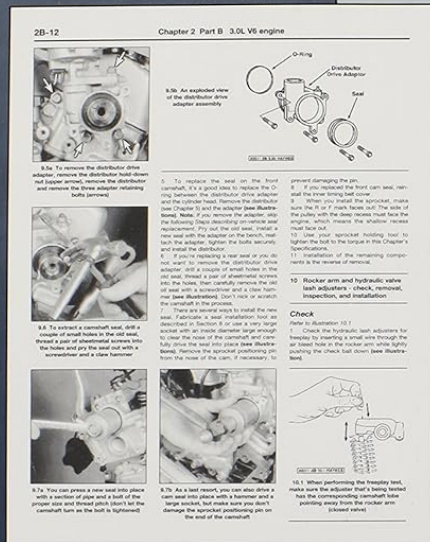
- **Step-by-step procedures:** Linked to numerous easy-to-follow photos and illustrations.
- **Complete troubleshooting section:** Helps identify specific problems.
- **Hands-on experience:** Content is based on a complete vehicle teardown using commonly available

tools.

- **Haynes tips:** Provides valuable shortcuts to simplify tasks and reduce the need for specialized tools.
- **Notes, Cautions, and Warnings:** Essential information for the home mechanic.
- **Color spark plug diagnosis:** Aids in engine health assessment.
- **Easy to use index:** For quick reference.

Inside this manual:

- Routine maintenance
- Tune-up procedures
- Engine repair
- Cooling and heating
- Air conditioning
- Fuel and exhaust
- Emissions control
- Ignition
- Brakes
- Suspension and steering
- Electrical systems
- Wiring diagrams



- **Step-by-step procedures** linked to hundreds of **easy-to-follow photos** and illustrations
- **Complete troubleshooting section** helps identify specific problems
- Written from **hands-on experience** based on a vehicle teardown using **commonly available tools**
- Haynes tips give **valuable short cuts** to make the job easier and eliminate the need for special tools
- **Notes, Cautions and Warnings** for the home mechanic
- **Color spark plug diagnosis**
- **Easy to use index**

Models covered by this manual:

- Kia Sephia – 1994 through 2001
- Kia Spectra – 2000 through 2009
- Kia Sportage – 2005 through 2010



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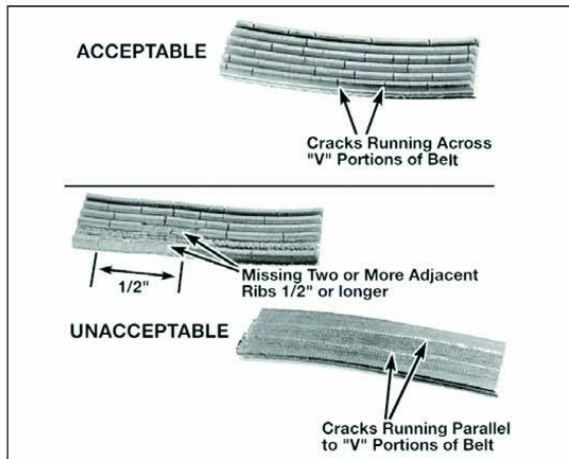


Image: Back cover of the manual, highlighting its features and listing the main chapters.

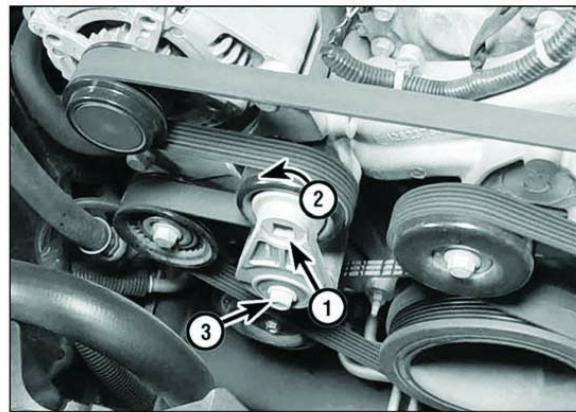
MAINTENANCE

Chapter 1 of this manual is dedicated to tune-up procedures and routine maintenance. This section covers

essential tasks to keep your vehicle in optimal condition, including checks for belts, fluids, and other wear items.

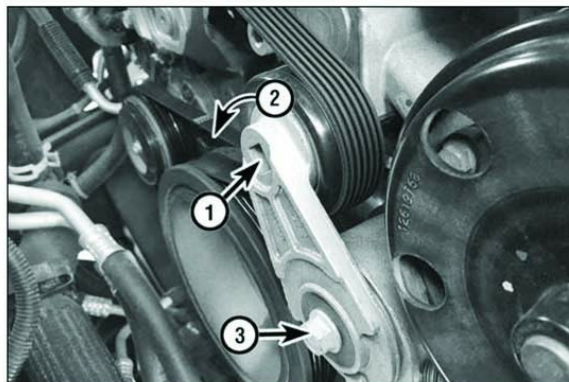


12.4 Small cracks in the underside of a V-ribbed belt are acceptable - lengthwise cracks, or missing pieces that cause the belt to make noise, are cause for replacement



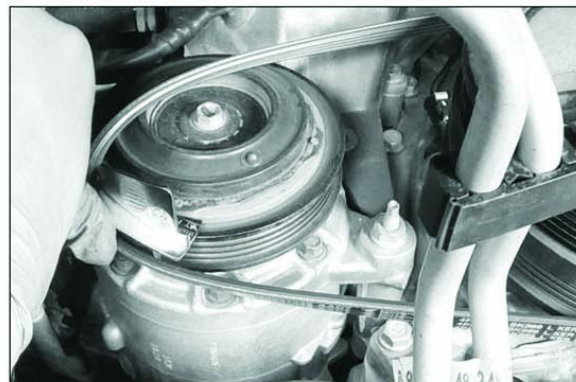
12.6a V6 engine accessory drivebelt tensioner details

- 1 Square drive
- 2 Rotate counterclockwise to release tension
- 3 Tensioner mounting bolt



12.6b V8 engine accessory drivebelt tensioner details

- 1 Square drive
- 2 Rotate counterclockwise to release tension
- 3 Tensioner mounting bolt



12.13 Install the belt installation tool and rotate the crankshaft pulley until the belt is lifted onto the pulley

glazing which gives the belt a shiny appearance. Check the pulleys for nicks, cracks, distortion and corrosion.

4 Note that it is not unusual for a ribbed belt to exhibit small cracks in the edges of the belt ribs, and unless these are extensive or very deep, belt replacement is not essential (see illustration).

Replacement

Accessory drivebelt (alternator, water pump and power steering pump, if equipped)

- 5 Remove the air intake duct (see Chapter 4, Section 12).
- 6 Note how the drivebelt is routed, then insert a 1/2-inch square drive breaker bar into the tensioner pulley square hole. Rotate

the tensioner counterclockwise (see illustrations) to release the drivebelt tension. Once tension has been released, remove the belt from the pulleys. Once the outer belt has been removed, the air conditioning belt and vacuum pump belt can be accessed.

7 Install the new drivebelt onto the crankshaft, idler, alternator, power steering pump and water pump pulleys, then turn the tensioner back and locate the drivebelt on the tensioner pulley. Make sure that the drivebelt is correctly seated in all of the pulley grooves, then release the tensioner. Reinstall the air filter duct.

Air conditioning compressor drivebelt

- 8 Remove the accessory drivebelt (see Steps 5 and 6).

9 Remove the engine splash shield (see Section 8).

10 Using a pair of diagonal cutting pliers, cut the air conditioning belt to remove it.

Note: Some tool manufacturers make air conditioning compressor belt removal tools that can remove the belt without cutting it off. We only recommend using this type of tool if the belt is relatively new. Always check the belt for damage after the removal process.

11 Place the new belt on the crankshaft pulley, making sure the belt is fully seated in the pulley grooves.

12 Place the installation tool on the compressor pulley, then loop the belt over the tool.

13 Rotate the crankshaft pulley and allow the tool to turn, which will lift the belt onto the pulley (see illustration).

Image: An example page from the manual illustrating belt inspection and removal procedures with detailed diagrams.

ENGINE SYSTEMS

Detailed instructions are provided for various engine types and overhaul procedures.

- Chapter 2, Part A: Four-cylinder engines
- Chapter 2, Part B: V6 engine

- Chapter 2, Part C: General engine overhaul procedures

COOLING, FUEL, AND ELECTRICAL SYSTEMS

This section covers the essential systems that ensure your vehicle's performance and safety.

- Chapter 3: Cooling, heating, and air conditioning systems
- Chapter 4: Fuel and exhaust systems
- Chapter 5: Engine electrical systems
- Chapter 6: Emissions and engine control systems

DRIVETRAIN AND BRAKES

Information on maintaining and repairing your vehicle's transmission, clutch, driveaxles, and braking system.

- Chapter 7, Part A: Manual transaxle
- Chapter 7, Part B: Automatic transaxle
- Chapter 8: Clutch and driveaxles
- Chapter 9: Brakes

CHASSIS AND BODY

Guidance for the suspension, steering, bodywork, and general electrical systems.

- Chapter 10: Suspension and steering systems
- Chapter 11: Body
- Chapter 12: Chassis electrical system
- Wiring Diagrams

TROUBLESHOOTING

The manual includes a comprehensive troubleshooting section designed to help identify and resolve specific vehicle problems. By following the diagnostic charts and procedures, users can pinpoint issues and determine appropriate repair steps.

SPECIFICATIONS

Key details and specifications for the Haynes Repair Manual:

Publisher	Cengage Learning
Publication Date	August 15, 2011
Edition	1st
Language	English
Print Length	288 pages
ISBN-10	1563929082
ISBN-13	978-1563929083
Item Weight	1.2 pounds
Dimensions	8.25 x 0.88 x 10.63 inches
UPC	0038345540707

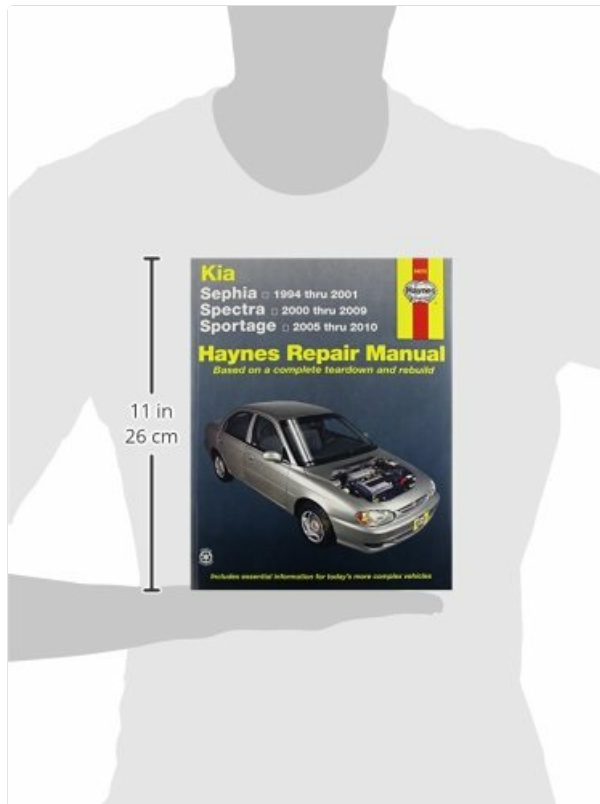


Image: The manual held in hand, illustrating its approximate size and dimensions.

WARRANTY INFORMATION

Specific warranty information for this Haynes Repair Manual is not provided within the product details. For any inquiries regarding the product's warranty, please contact the publisher directly.

SUPPORT

For technical support, clarifications on repair procedures, or any other assistance related to the content of this manual, please refer to the publisher, Cengage Learning, or visit the official Haynes website for additional resources and contact information.

