

Volkswagen Jetta (A5 Platform) 2005-2006

Volkswagen Jetta Service Manual: 2005-2006 (A5 Platform)

Comprehensive Technical Information for Maintenance and Repair



INTRODUCTION

This service manual provides comprehensive repair information for Volkswagen Jetta models produced between 2005 and 2006, specifically those built on the A5 platform. It is designed to assist both professional technicians and do-it-yourself enthusiasts in performing maintenance, troubleshooting, and repair procedures.

The manual covers a wide range of topics, from routine maintenance to complex engine and transmission overhauls, ensuring that users have access to the detailed information required to service their vehicle effectively.

PRODUCT OVERVIEW

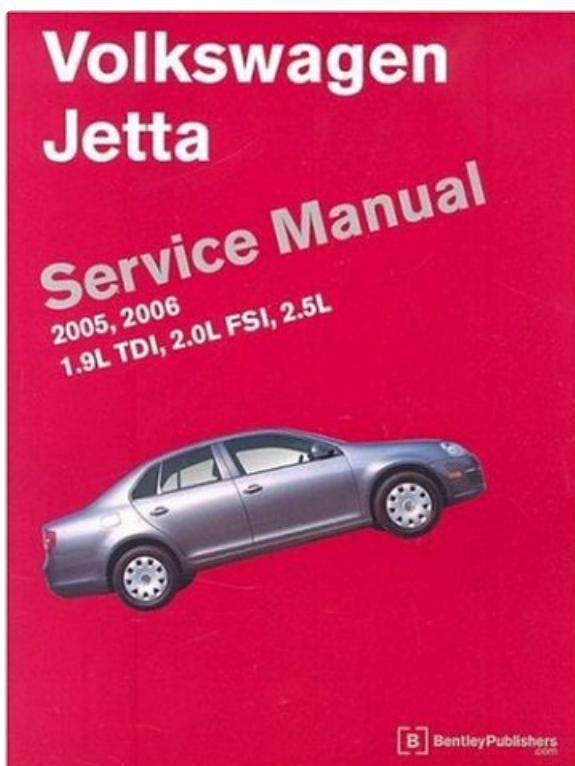


Image: Front cover of the Volkswagen Jetta Service Manual for 2005-2006 models. The cover is red and features a silver Volkswagen Jetta car, along with the title and publisher's logo.

Volkswagen

Jetta 2005-2006

Service Manual



Service to Volkswagen owners is of top priority to Volkswagen and has always included the continuing development and introduction of new and expanded services. Whether you're a professional or a do-it-yourself Volkswagen owner, this manual will help you understand, fix, test, and repair your vehicle. While the do-it-yourself Volkswagen owner will find this manual indispensable as a source of the most accurate maintenance and repair information available at an authorized Volkswagen dealer, the Volkswagen owner who has no intention of working on his or her car will find that reading and owning the manual will make it possible to discuss repairs more intelligently with a professional technician.



Bentley technical
editor working on
a 2005 Jetta.



Drivebelt tensioner
being rotated by a
ribbed tool.
83 Maintenance



Outer door panels are
removable for servicing
the door handle and
door lock.
87 Doors and Central
Locking



Detailed brake fluid and
Master cylinder service
procedure.
46 Brakes-Mechanical

Features:

- Covers Jetta models 2005-2006 based on the A5 platform.*
- Maintenance procedures: from oil changes to belt replacement.
- Engine and cylinder head service, including timing belt replacement for 4-cylinder engines.
- Removal and installation of Motronic (gasoline) and Diesel fuel injection system components.
- Emission control tests, repairs and adjustments, including Exhaust Gas Recirculation and Secondary Air Injection system.
- Drivetrain maintenance, troubleshooting, adjustment and repair, including clutch, gearshift linkage, and drive axles.
- Suspension component replacement, including front struts, rear shocks, coil springs, wheel bearings and wheels.
- Heating and air conditioning repair, including A/C component replacement on the Climatronic and Climatic systems.
- Body adjustment and repairs, including front and rear doors, fenders, front radiator support and sunroof.
- Wiring schematics with fuse/relay locations including an easy-to-read illustrated component locator section.
- Volkswagen OBD II diagnostic trouble codes, SAE-defined OBD II Codes, as well as basic scan tool operators.
- Comprehensive Volkswagen factory tolerances, wear limits, adjustments, and tightening torques.

Engines:

1.9L TDI diesel engine code: BRM

2.0L FSI turbo gasoline engine code: BPY

2.5L gasoline engine code: BGP, BGQ

Transmissions:

04A 5-speed manual

02D 6-speed manual

02Q 6-speed automatic

02E 6-speed DSG

*Positions 7 and 8 of the 17 digit Vehicle Identification Number (VIN):

1E = mid 2005 on Jetta sedan models = A5 Platform



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Image: Back cover of the Volkswagen Jetta Service Manual, displaying a list of covered topics and features, including engine and transmission types, and diagnostic information.

Key Features and Coverage:

- Covers Volkswagen Jetta models from 2005 to 2006 (A5 Platform).
- Detailed maintenance procedures, from basic oil changes to complex belt replacements.
- Engine and cylinder head service, including timing belt replacement for 1.9L TDI diesel engines.
- Procedures for removal and installation of Motronic (gasoline) and Diesel fuel injection system components.
- Emission control tests, repairs, and adjustments, including Exhaust Gas Recirculation (EGR) and Secondary Air Injection (SAI) systems.
- Drivetrain maintenance, troubleshooting, adjustment, and repair, covering clutch, gearshift linkage, and drive axles.
- Suspension component replacement, including front struts, rear shocks, coil springs, wheel bearings, and wheels.
- Heating and air conditioning repair, including A/C component replacement on Climatronic and Climatic systems.
- Body adjustment and repairs, covering front and rear doors, fenders, front radiator support, and sunroof.
- Wiring schematics with fuse/relay locations and an illustrated component locator section.
- Volkswagen OBD II diagnostic trouble codes, SAE-defined OBD II trouble codes, and factory trouble codes.
- Comprehensive Volkswagen factory tolerances, wear limits, adjustments, and tightening torques.

ENGINES COVERED

- **1.9L TDI diesel** (engine code: BRM)
- **2.0L FSI turbo gasoline** (engine code: BPY)
- **2.5L gasoline** (engine codes: BGP, BGQ)

TRANSMISSIONS COVERED

Procedures for removal, installation, and external service are included for the following transmissions:

- **04A** 5-speed manual
- **02Q** 6-speed manual
- **09G** 6-speed automatic
- **02E** 6-speed DSG

SETUP AND INITIAL USE

This manual is a reference guide and does not require a "setup" in the traditional sense. To begin using the manual:

1. **Identify Your Vehicle:** Confirm your Volkswagen Jetta is a 2005 or 2006 model (A5 Platform) and identify its specific engine and transmission type. This information is crucial for navigating the manual effectively.
2. **Locate Relevant Sections:** Use the detailed chapter structure to find the specific repair or maintenance procedure you intend to perform.
3. **Review Safety Information:** Always read and understand all safety warnings and precautions provided within the manual before attempting any procedure.
4. **Gather Tools and Materials:** Ensure you have all necessary tools, parts, and fluids as specified for the task.

For optimal use, it is recommended to familiarize yourself with the overall layout and content of the manual before starting any work.

OPERATING PROCEDURES (REFERENCE)

This manual primarily focuses on service and repair. It provides detailed instructions for operating various vehicle systems during diagnostic or repair processes, rather than general driving operation. Key areas include:

- **Diagnostic Procedures:** Steps for using diagnostic tools (e.g., OBD II scanners) and interpreting fault codes.
- **System Function Checks:** Instructions for testing the operation of components after repair or replacement.
- **Component Adjustment:** Procedures for adjusting various vehicle systems to ensure proper function (e.g., clutch adjustment, timing adjustments).

Always follow the step-by-step instructions precisely to ensure correct operation and prevent damage.

MAINTENANCE SCHEDULE AND PROCEDURES

The manual provides comprehensive guidance on routine maintenance, essential for the longevity and performance of your Volkswagen Jetta. Key maintenance areas include:

- **Fluid Checks and Changes:** Engine oil, transmission fluid, coolant, brake fluid, power steering fluid.
- **Filter Replacement:** Oil filter, air filter, fuel filter, cabin air filter.
- **Belt and Hose Inspection/Replacement:** Serpentine belt, timing belt (where applicable), and various hoses.
- **Brake System Maintenance:** Inspection of pads, rotors, calipers, and fluid levels.
- **Tire Rotation and Inspection:** Guidance on proper tire care.
- **Lighting and Electrical System Checks:** Ensuring all lights and electrical components function correctly.
- **Suspension and Steering Component Inspection:** Checking for wear and tear on critical components.

Refer to the specific maintenance schedules and detailed procedures within the manual for recommended intervals

and step-by-step instructions.

TROUBLESHOOTING

This manual is an invaluable resource for diagnosing and resolving common vehicle issues. It includes:

- **Diagnostic Flowcharts:** Step-by-step guides to identify the root cause of symptoms.
- **Fault Code Explanations:** A comprehensive list of Volkswagen OBD II diagnostic trouble codes (DTCs), SAE-defined OBD II trouble codes, and factory trouble codes, along with their meanings and potential causes.
- **Symptom-Based Diagnostics:** Sections dedicated to common problems (e.g., engine not starting, poor performance, unusual noises) and their potential solutions.

When troubleshooting, always start with the simplest checks and proceed systematically as outlined in the manual.

SPECIFICATIONS

The manual contains detailed technical specifications crucial for accurate repairs and maintenance. Key specifications include:

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Publisher	Bentley Pub
Publication Date	May 1, 2006
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ISBN-13	978-0837613642
Item Weight	4.25 pounds
Dimensions	8.5 x 1.75 x 11 inches

The manual also provides specific tolerances, wear limits, and tightening torques for various components, which are essential for correct assembly and function.

WARRANTY AND SUPPORT

This service manual is a publication by Bentley Publishers. For any inquiries regarding the content, corrections, or additional technical support related to the manual itself, please contact Bentley Publishers directly.

As a technical reference book, this manual does not come with a product warranty for the vehicle itself. Vehicle warranties are provided by the vehicle manufacturer (Volkswagen) or authorized dealerships, and their terms should be consulted separately.

For official Volkswagen service information or warranty claims for your vehicle, please refer to your vehicle's owner's manual or contact an authorized Volkswagen service center.

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