

Audi A4 B6/B7

Audi A4 (B6/B7) 2000-2007 Repair Manual

Comprehensive Guide for Maintenance and Repair

ABOUT THIS MANUAL

This manual provides detailed instructions and technical information for the maintenance, repair, and troubleshooting of Audi A4 models, specifically types B6 and B7, manufactured between the years 2000 and 2007. It is designed to assist both professional technicians and DIY enthusiasts in performing various service procedures accurately and safely.

The content covers a wide range of topics, from routine service tasks to complex system diagnostics and component replacement. Adherence to the procedures outlined in this manual is crucial for ensuring the longevity and optimal performance of your Audi A4.

MANUAL COVER OVERVIEW

H.R. Etzold



AUDI A4



Sam naprawiam samochód

The image above displays the cover of the Audi A4 (B6/B7) 2000-2007 Repair Manual. It features a silver Audi A4 sedan, model year within the B6/B7 generation, parked on a textured ground surface. The title "AUDI A4" is prominently displayed, along with the author's name, H.R. Etzold, and the publisher's logo. The phrase "Sam naprawiam samochód" (I repair the car myself) is also visible, indicating the manual's DIY focus.

GENERAL INFORMATION AND VEHICLE IDENTIFICATION

This section provides an overview of the Audi A4 B6/B7 models, including their key features and variations. It details how to locate and interpret vehicle identification numbers (VIN), engine codes, and transmission codes, which are essential for ordering correct parts and accessing specific technical data.

- **Model Overview:** Key characteristics of B6 (2000-2004) and B7 (2004-2007) generations.
- **VIN Decoding:** Understanding the vehicle identification number for manufacturing details.
- **Engine and Transmission Codes:** Locating and identifying specific powertrain configurations.

ENGINE SYSTEMS

Detailed procedures for servicing and repairing various engine types available in the Audi A4 B6/B7 range, including both gasoline and diesel engines. This section covers:

- **Engine Removal and Installation:** Step-by-step guides.
- **Cylinder Head Service:** Valve train, camshafts, and gasket replacement.
- **Timing Belt/Chain Replacement:** Critical maintenance procedures.
- **Fuel System:** Injectors, fuel pump, and filter service.
- **Cooling System:** Radiator, water pump, and thermostat replacement.
- **Exhaust System:** Component inspection and replacement.

TRANSMISSION SYSTEMS

This section provides guidance on the maintenance and repair of both manual and automatic transmissions found in the Audi A4 B6/B7 models.

- **Manual Transmission:** Clutch replacement, gear linkage adjustment, fluid changes.
- **Automatic Transmission (Multitronic/Tiptronic):** Fluid and filter service, basic diagnostics.
- **Drive Shafts and CV Joints:** Inspection and replacement procedures.

CHASSIS AND SUSPENSION

Instructions for maintaining and repairing the vehicle's chassis, steering, braking, and suspension components.

- **Braking System:** Disc and pad replacement, caliper service, ABS system overview.
- **Steering System:** Power steering pump, rack and pinion, tie rod ends.
- **Suspension:** Shock absorbers, springs, control arms, wheel bearings.
- **Wheel Alignment:** Basic principles and adjustment considerations.

ELECTRICAL SYSTEMS

This section covers the various electrical components and systems, including wiring diagrams and diagnostic procedures.

- **Battery and Charging System:** Alternator, starter motor, battery testing.
- **Lighting System:** Headlights, taillights, interior lights, bulb replacement.
- **Wiper System:** Motor, linkage, and blade replacement.
- **Climate Control:** HVAC system components and basic troubleshooting.
- **Wiring Diagrams:** Essential for electrical diagnostics.

Bodywork and Interior

Guidance on minor repairs and maintenance for the vehicle's exterior and interior components.

- **Door Panels and Locks:** Removal, installation, and adjustment.
- **Window Regulators:** Repair and replacement.
- **Seat Removal and Installation:** Access for carpet or component repair.
- **Exterior Trim:** Bumper removal, mirror replacement.

Maintenance Schedule

A detailed schedule of recommended service intervals for various components and fluids to ensure optimal vehicle performance and longevity.

Service Item	Interval (km/miles or time)	Notes
Engine Oil & Filter	15,000 km / 1 year	Use specified oil type.
Air Filter	30,000 km / 2 years	More frequently in dusty conditions.
Spark Plugs (Gasoline)	60,000 km / 4 years	Check specific engine requirements.
Fuel Filter	60,000 km / 4 years	Diesel engines may require different intervals.
Brake Fluid	Every 2 years	Critical for braking performance.
Timing Belt (if applicable)	90,000-120,000 km / 5-7 years	Refer to specific engine data; critical replacement.

Note: Always refer to the vehicle's official service schedule for the most accurate and up-to-date maintenance intervals.

Troubleshooting Guide

This section provides a systematic approach to diagnosing common issues that may arise with your Audi A4 B6/B7. It includes symptom-based tables and diagnostic flowcharts to help identify the root cause of problems.

- **Engine Starting Problems:** No crank, slow crank, engine cranks but won't start.
- **Engine Performance Issues:** Loss of power, rough idle, excessive fuel consumption.
- **Brake System Concerns:** Squealing, grinding, soft pedal, pulling to one side.
- **Electrical Malfunctions:** Lights not working, power windows inoperative, warning lights.
- **Suspension Noises:** Clunking, squeaking, rattling over bumps.

Always ensure safety precautions are followed when performing any diagnostic or repair work.

Technical Specifications


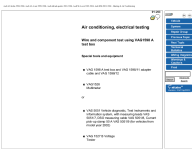


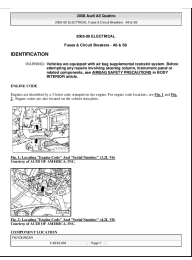
Key technical data for the Audi A4 B6/B7 models, including dimensions, weights, fluid capacities, and torque specifications for critical fasteners. This information is vital for proper assembly and component

selection.

- **Dimensions:** Length, width, height, wheelbase.
- **Weights:** Curb weight, gross vehicle weight rating.
- **Fluid Capacities:** Engine oil, coolant, transmission fluid, brake fluid.
- **Tire and Wheel Specifications:** Recommended sizes and pressures.
- **Torque Specifications:** Essential for engine, suspension, and brake component assembly.

Consult the specific vehicle's owner's manual or service data for exact figures pertaining to your vehicle's configuration.

Related Documents - A4 B6/B7

	<p>Audi A8/A8L (2004-2008) Service Procedures Manual</p> <p>Comprehensive service procedures manual for the Audi A8/A8L models from 2004 to 2008, covering maintenance, diagnostics, and repair tasks.</p>
	<p>Audi A6 (1998-2004) Heating & Air Conditioning Electrical Testing Manual</p> <p>Comprehensive guide for electrical testing of Audi A6 (1998-2004) heating and air conditioning systems. Details tools, procedures, and troubleshooting for automotive technicians.</p>
	<p>Audi A4 (B6, B7) Service Manual 2002-2008</p> <p>Comprehensive service manual for Audi A4 models (B6 and B7 platforms) from 2002-2008, covering 1.8L turbo, 2.0L turbo, 3.0L, and 3.2L engines, including Avant and Cabriolet variants. Provides in-depth maintenance, service, and repair information.</p>
	<p>Audi A6 (1998-2004) Exhaust System and Exhaust Gas Temperature Sensor Repair Guide</p> <p>Comprehensive guide for the removal, installation, alignment, and testing of the exhaust system and exhaust gas temperature sensor for Audi A6 Sedan, Avant, allroad quattro, S6 Avant, and RS6 models from 1998 to 2004. Includes detailed procedures, tightening torques, and diagnostic steps.</p>
	<p>2008 Audi A6 Quattro Electrical Fuses and Circuit Breakers Guide</p> <p>This guide provides detailed information on identifying and locating fuses and circuit breakers for the 2008 Audi A6 Quattro, covering model years 2005-2009. It includes engine code identification and diagrams of fuse and relay panel locations.</p>



[Audi A6 Heating & Air Conditioning: Output Diagnostic Test Mode Guide](#)

This document provides detailed instructions for performing the Output Diagnostic Test Mode (DTM) on the heating and air conditioning systems of various Audi A6 models (Sedan, Avant, allroad quattro, S6, RS6) from 1998 to 2004. It covers initiation, execution, and troubleshooting of HVAC components.