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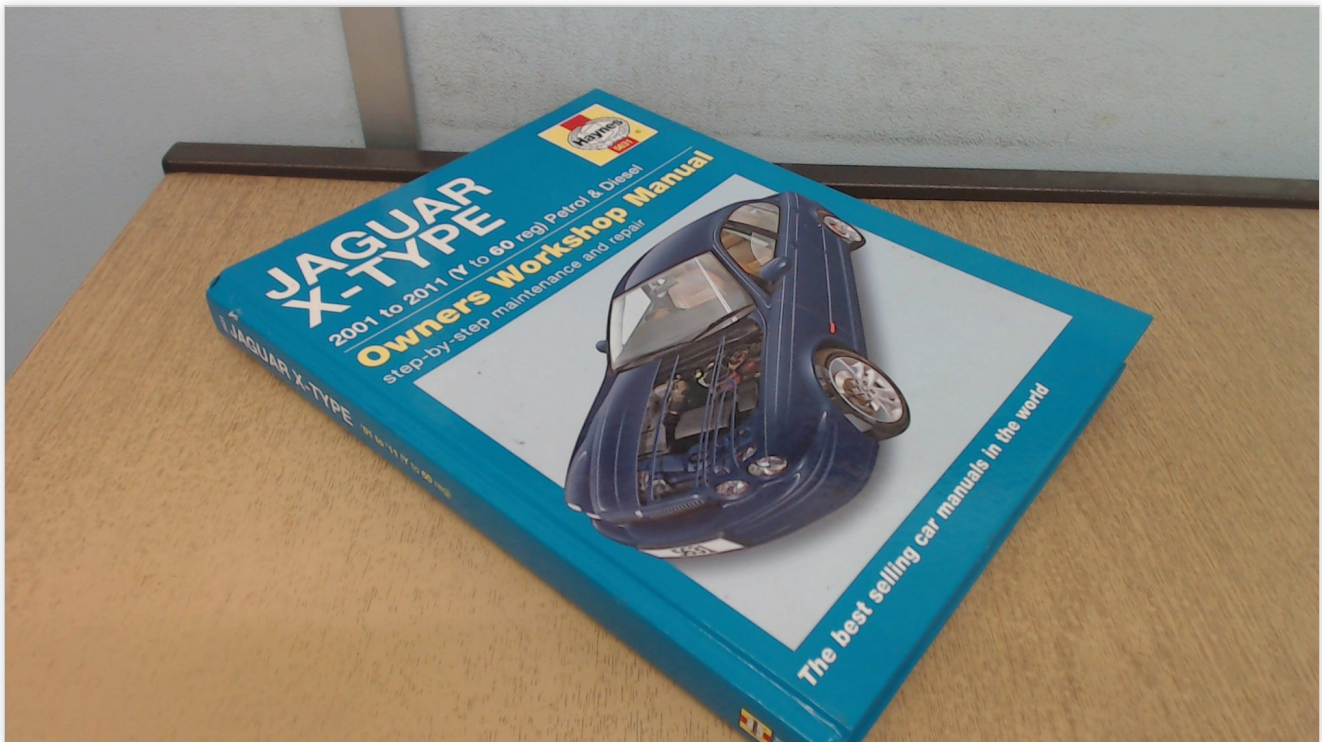
### Haynes X-Type Petrol & Diesel (2001-2011)

# Haynes Service and Repair Manual for Jaguar X-Type Petrol & Diesel (2001-2011)

Comprehensive instructions for maintenance, service, and repair procedures.

## 1. INTRODUCTION

This manual provides detailed service and repair information for Jaguar X-Type models equipped with Petrol and Diesel engines, manufactured between 2001 and 2011. It is designed to assist both the professional mechanic and the do-it-yourself enthusiast in performing various maintenance and repair tasks efficiently and correctly. The content covers a wide range of topics from routine servicing to major overhauls.



**Figure 1.1:** Front cover of the Haynes Service and Repair Manual for Jaguar X-Type. This image displays the manual's title, vehicle model, and publication details, indicating its scope and purpose.

Each chapter focuses on a specific system or component, offering step-by-step procedures, accompanied by

illustrations and wiring diagrams where applicable. Always refer to the specific sections relevant to the task at hand before commencing any work.

## 2. SAFETY INFORMATION

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Always prioritize safety when working on any vehicle. Failure to follow proper safety procedures can result in serious injury or damage to the vehicle. This section outlines general safety precautions.

- **Eye Protection:** Always wear safety glasses or goggles to protect your eyes from debris, fluids, and chemicals.
- **Hand Protection:** Use appropriate gloves to protect your hands from cuts, burns, and chemical exposure.
- **Vehicle Support:** Never work under a vehicle supported only by a jack. Always use sturdy jack stands on a level, firm surface.
- **Battery Disconnection:** Disconnect the negative battery terminal before working on electrical components to prevent accidental shorts or activation of systems.
- **Flammable Materials:** Keep open flames, sparks, and smoking materials away from fuel and other flammable liquids. Ensure adequate ventilation.
- **Hot Components:** Allow the engine and exhaust system to cool down before working on them to avoid burns.

Refer to the specific safety warnings provided within each chapter for detailed precautions related to particular procedures.

## 3. VEHICLE IDENTIFICATION AND GENERAL INFORMATION

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Understanding your vehicle's specific details is crucial for correct part identification and repair procedures. This section covers key identification numbers and general vehicle data.

### Vehicle Identification Number (VIN)

The VIN is a unique 17-character code that identifies your specific vehicle. It is typically located on the dashboard visible through the windshield, on the driver's side door jamb, and stamped on the vehicle's chassis. The VIN provides information about the manufacturer, model year, plant of manufacture, and engine type.

### Engine Number

The engine number is usually stamped on the engine block or cylinder head. Its location can vary depending on the engine type (Petrol or Diesel) and specific model year. Consult the manual's detailed diagrams for precise location.

## 4. ROUTINE MAINTENANCE

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Regular maintenance is essential for the longevity and reliable operation of your Jaguar X-Type. This section outlines recommended service intervals and procedures.

### Service Schedule Overview

Service Item	Interval (Miles/Kilometers or Time)
Engine Oil and Filter Change	Every 10,000 miles / 16,000 km or 12 months
Air Filter Replacement	Every 30,000 miles / 48,000 km or 36 months

Service Item	Interval (Miles/Kilometers or Time)
Fuel Filter Replacement	Every 40,000 miles / 64,000 km (Diesel) / Every 60,000 miles / 96,000 km (Petrol)
Spark Plug Replacement	Every 60,000 miles / 96,000 km (Petrol)
Brake Fluid Change	Every 2 years

Detailed instructions for each maintenance task, including required tools and torque specifications, are provided in the respective chapters of this manual.

## 5. ENGINE SYSTEMS

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This section covers the various components and systems of the Jaguar X-Type's Petrol and Diesel engines, including removal, installation, and overhaul procedures.

### Engine Removal and Installation

Procedures for safely removing the engine from the vehicle and reinstalling it, including disconnection of all ancillary components, fluid lines, and electrical connections. Special attention is given to lifting points and alignment.

### Cylinder Head Overhaul

Instructions for disassembling, inspecting, and reassembling the cylinder head, including valve removal, cleaning, inspection for warpage, and valve seat grinding. Torque sequences for cylinder head bolts are critical and detailed.

## 6. TRANSMISSION AND DRIVELINE

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This chapter details the service and repair of the manual and automatic transmissions, clutch assembly, driveshafts, and differential units.

### Clutch Replacement (Manual Transmission)

Step-by-step guide for removing the transmission, replacing the clutch disc, pressure plate, and release bearing, and inspecting the flywheel. Proper alignment and torque specifications are emphasized.

### Automatic Transmission Fluid and Filter Service

Instructions for draining and refilling automatic transmission fluid, replacing the filter, and checking fluid levels correctly. Specific fluid types are listed.

## 7. BRAKING SYSTEM

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Information on the front and rear braking systems, including disc brakes, calipers, master cylinder, and ABS components.

### Brake Pad and Disc Replacement

Procedures for inspecting and replacing front and rear brake pads and discs. Includes caliper removal, disc runout checks, and proper bedding-in procedures for new components.

### Brake System Bleeding

Instructions for bleeding the hydraulic braking system to remove air, ensuring proper brake pedal feel and effectiveness. Both manual and pressure bleeding methods are covered.

## 8. SUSPENSION AND STEERING

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This section covers the front and rear suspension components, shock absorbers, springs, steering rack, power steering system, and wheel alignment.

### Front Suspension Strut Replacement

Detailed steps for removing and installing front suspension struts, including spring compression safety warnings and torque specifications for mounting bolts.

### Power Steering Pump Replacement

Instructions for replacing the power steering pump, including draining and refilling the power steering fluid, and bleeding the system to remove air.

## 9. ELECTRICAL SYSTEM

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This chapter provides information on the vehicle's electrical components, including the battery, charging system, starting system, lighting, and wiring diagrams.

### Battery Maintenance and Testing

Procedures for inspecting battery terminals, checking electrolyte levels (if applicable), and performing load tests to assess battery health. Safety precautions for handling batteries are included.

### Alternator Removal and Installation

Instructions for safely disconnecting and removing the alternator, inspecting the drive belt, and installing a new or reconditioned unit. Proper belt tensioning is covered.

## 10. BODYWORK AND INTERIOR

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This section covers minor body repairs, interior trim removal, and component replacement.

### Door Panel Removal

Step-by-step guide for safely removing interior door panels to access window regulators, speakers, or door lock mechanisms. Care is advised to avoid damaging clips and trim.

### Headlight Unit Replacement

Instructions for removing and installing the complete headlight assembly, including bulb replacement and aiming procedures.

## 11. TROUBLESHOOTING

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This chapter provides diagnostic charts and common fault-finding procedures to help identify and resolve issues.

### Engine Starting Problems

Symptom	Possible Cause	Action
Engine cranks but won't start	No fuel, no spark, or incorrect timing	Check fuel pressure, ignition system, and engine timing.

Symptom	Possible Cause	Action
Engine cranks slowly	Weak battery, poor battery connections, or faulty starter motor	Test battery, clean terminals, inspect starter motor.
Engine starts then stalls	Faulty fuel pump, clogged fuel filter, or vacuum leak	Inspect fuel system components and check for vacuum leaks.

For more complex issues, the manual advises consulting a qualified Jaguar technician or utilizing specialized diagnostic equipment.

## 12. SPECIFICATIONS

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This section provides technical data, including fluid capacities, torque specifications, and dimensions for various components.

### Fluid Capacities

- **Engine Oil (Petrol):** 6.5 liters (approx.)
- **Engine Oil (Diesel):** 6.0 liters (approx.)
- **Coolant System:** 8.5 liters (approx.)
- **Brake Fluid:** DOT 4
- **Power Steering Fluid:** Specific Jaguar fluid (refer to manual)

### Torque Specifications

Critical torque values for engine, transmission, suspension, and brake components are listed in detail within their respective chapters. Always use a calibrated torque wrench.

## 13. SUPPORT AND PUBLISHER INFORMATION

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For inquiries regarding this manual or other Haynes publications, please contact the publisher directly.

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This manual is a reference guide and does not imply a warranty for repairs performed using its instructions. Always exercise caution and consult professional assistance when necessary.