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Jaguar XJ12 Series 2 / Double Six Series 2

Jaguar XJ12 Series 2 / Daimler Double Six Series 2

Repair Operation Manual Model Years: 1973-1979

INTRODUCTION

This factory repair manual is designed to provide service operators with the essential information required for the maintenance and repair of Jaguar XJ12 Series 2 and Daimler Double Six Series 2 vehicles. These models were produced between 1973 and 1979.

The manual serves as a comprehensive reference for service supervision and outlines procedural elements to guide both fully qualified and less experienced mechanics. It covers a wide range of topics to ensure proper vehicle upkeep and repair.

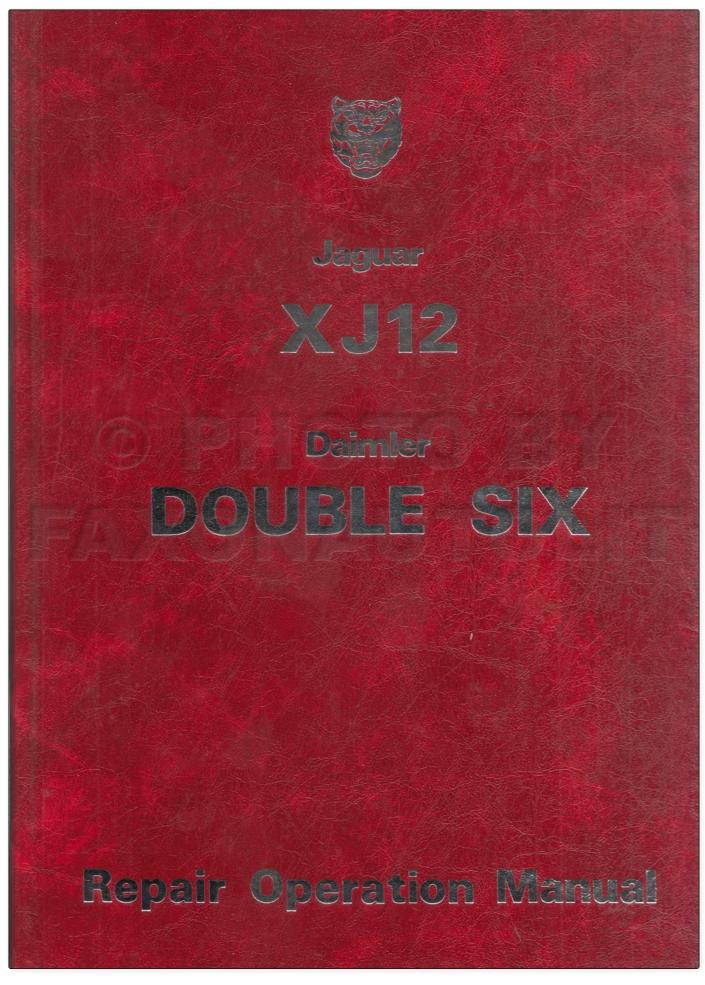


Figure 1: Front cover of the official repair manual. The cover is a deep red with a textured finish, featuring the Jaguar emblem at the top, followed by "Jaguar XJ12" and "Daimler DOUBLE SIX" in silver lettering. The bottom of the cover reads "Repair Operation Manual".

GENERAL INFORMATION AND PREPARATION

Before commencing any repair or maintenance work, it is crucial to review the general specifications, safety guidelines, and necessary tools. Adherence to these instructions ensures both personal safety and the integrity of the vehicle.

Safety Precautions

- · Always disconnect the battery before working on electrical components.
- Ensure the vehicle is securely supported on jack stands when working underneath.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection.
- Work in a well-ventilated area, especially when dealing with fuels or solvents.

Tools and Equipment

A comprehensive set of metric and imperial tools will be required. Specialized tools may be necessary for certain procedures, as detailed in specific sections of this manual.

OPERATION AND REPAIR PROCEDURES

This section details the step-by-step procedures for various repair operations. Each procedure is designed to be followed precisely to ensure correct assembly and functionality.

Engine Systems

The manual covers the classic 5.3-liter engine, including both carburettor and fuel injection systems. Detailed instructions are provided for:

- Engine tuning data and adjustments.
- Emission control systems.
- Fuel system components and maintenance.
- · Cooling system diagnostics and repair.
- Manifold and exhaust system servicing.

Transmission and Drivetrain

Automatic transmissions, specifically Borg-Warner and GM 400 models, are covered in detail. This includes:

- · Transmission removal and installation.
- Propeller shafts and drive shafts.
- · Final drive unit maintenance.

Chassis and Body

Comprehensive guidance is provided for the vehicle's chassis and body components:

- Steering system adjustments and repairs.
- Front and rear suspension maintenance.
- Braking system inspection and servicing.
- Bodywork repair and alignment.
- Heating, ventilation, and air conditioning (HVAC) systems.
- · Windshield washers and wipers.

Electrical Systems and Instruments

Detailed diagrams and instructions for the vehicle's electrical systems and instrumentation are included to assist with diagnostics and repair.

ROUTINE MAINTENANCE

Regular maintenance is essential for the longevity and optimal performance of your Jaguar or Daimler vehicle. This section outlines recommended service intervals and procedures.

Lubricants and Fluids

Refer to the following table for recommended lubricants, fuels, and fluid capacities:

Component	Recommended Fluid/Lubricant	Capacity (Approx.)
Engine Oil	Specific API/ACEA rating (refer to manual)	Varies by model/filter
Automatic Transmission Fluid	Dexron II/III equivalent	Varies by transmission type
Coolant	Ethylene Glycol based	Varies by model
Brake Fluid	DOT 3 or DOT 4	As required

Always consult the detailed specifications within the manual for precise fluid types and capacities for your specific vehicle configuration.

TROUBLESHOOTING

This section provides guidance on diagnosing common issues that may arise with your vehicle. For detailed diagnostic procedures and repair steps, refer to the relevant sections of this manual.

Common Symptoms and Potential Causes

- Engine Cranks but Won't Start: Check fuel supply, ignition system, and engine compression.
- Overheating Engine: Inspect coolant level, radiator, thermostat, and water pump.
- Brake Pedal Soft/Spongy: Bleed brake lines, check for fluid leaks, inspect master cylinder.
- Steering Play/Vibration: Examine steering linkages, power steering fluid, and wheel alignment.

If you are unable to identify or resolve an issue, it is recommended to consult a qualified mechanic or refer to the specific diagnostic charts provided in the full manual.

SPECIFICATIONS

This manual includes comprehensive general specification data, engine tuning data, and torque wrench settings for various components. Key specifications are summarized below:

Publication Number: E190/4
Engine Type: 5.3-liter V12

• Transmission Types Covered: Borg-Warner Automatic, GM 400 Automatic

• **Dimensions (Book):** 21.01 x 2.11 x 29.69 cm (8.27 x 0.83 x 11.69 inches)

• Weight (Book): 962 g (2.12 lbs)

Number of Pages: 360ISBN-10: 1855201402

• ISBN-13: 978-1855201408

• Language: English

• Publication Date: January 10, 1979

For detailed torque specifications and specific component tolerances, refer to the relevant chapters within the manual.

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