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Mazda Millenia

1999 Mazda Millenia Official Service and Repair Manual

Comprehensive instructions for maintenance, diagnosis, and repair.

Introduction to Your Service Manual

This official service and repair manual provides detailed procedures and specifications for the 1999 Mazda Millenia. It is an indispensable resource for technicians and owners performing maintenance, troubleshooting, and repairs on their vehicle. The manual is organized into logical sections to facilitate easy navigation and understanding of complex systems.

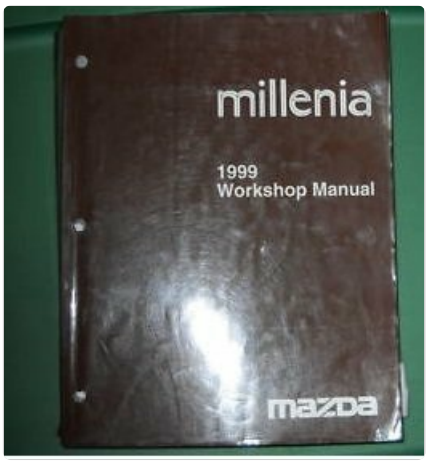


Image: Front cover of the 1999 Mazda Millenia Service Shop Repair Manual, displaying the title and Mazda logo.

Referencing this manual ensures that all service operations are performed according to factory standards, promoting vehicle reliability and safety. Always consult the latest edition for the most accurate information.

General Information and Safety

Before commencing any service or repair work, it is crucial to review the general information section. This includes:

- **Safety Precautions:** Guidelines for working with automotive systems, including electrical, fuel, and high-pressure components.
- **Vehicle Identification:** Locating VIN, engine, and transmission serial numbers.
- **Recommended Tools:** A list of specialized and general tools required for various procedures.
- **Standard Procedures:** Basic steps for lifting, supporting, and securing the vehicle.

Adhering to these guidelines is essential for personal safety and to prevent damage to the vehicle.

Engine Systems

This section provides comprehensive details on the 1999 Mazda Millenia's engine, including both the 2.5L V6 and the 2.3L Miller Cycle V6 (if applicable to the specific manual edition). Topics covered include:

- **Engine Mechanical:** Disassembly, inspection, assembly, and adjustment procedures for cylinder heads, block, pistons, crankshaft, and camshafts.
- **Fuel System:** Diagnosis and repair of fuel injectors, fuel pump, fuel lines, and related components.
- **Ignition System:** Testing and replacement of spark plugs, ignition coils, and ignition control modules.
- **Cooling System:** Maintenance and repair of the radiator, water pump, thermostat, and cooling fan.
- **Lubrication System:** Oil pump, oil pan, and oil cooler service.
- **Emission Control System:** Component locations, testing, and repair of EGR, PCV, and catalytic converter systems.

Detailed diagrams and torque specifications are provided for all engine-related tasks.

Transmission and Transaxle

This section covers the automatic transaxle system of the 1999 Mazda Millenia. It includes:

- **Automatic Transaxle:** Removal, installation, disassembly, inspection, and assembly procedures.
- **Shift Mechanism:** Adjustment and repair of the shift lever and cable.
- **Hydraulic System:** Valve body service and pressure testing.
- **Electronic Controls:** Sensor testing and solenoid replacement.

Proper fluid specifications and fill procedures are also detailed.

Chassis Systems

The chassis section addresses the structural and dynamic components of the vehicle:

- **Front and Rear Suspension:** Component removal, inspection, and installation, including shock absorbers, springs, control arms, and bushings.
- **Steering System:** Power steering pump, steering gear, tie rods, and alignment procedures.
- **Brake System:** Disc brake service (pads, rotors, calipers), drum brake service (if applicable), master cylinder, brake booster, and ABS system diagnosis.
- **Wheels and Tires:** Rotation, balancing, and tire pressure monitoring (if equipped).

Detailed diagrams and torque specifications are provided for all chassis components.

Electrical Systems

This section covers the extensive electrical systems of the 1999 Mazda Millenia:

- **Wiring Diagrams:** Comprehensive schematics for all circuits.
- **Charging System:** Alternator testing and replacement.
- **Starting System:** Starter motor diagnosis and repair.
- **Lighting System:** Headlights, taillights, interior lights, and associated switches.
- **Instrumentation:** Gauge cluster, sensors, and warning lights.
- **Audio System:** Component removal and installation.
- **Body Electrical:** Power windows, door locks, mirrors, and climate control.

Diagnostic procedures for electrical faults are included, often requiring a multimeter.

Body and Interior

This section details the repair and maintenance of the vehicle's body and interior components:

- **Exterior Panels:** Removal, installation, and adjustment of fenders, doors, hood, and trunk lid.
- **Glass and Mirrors:** Windshield, door glass, and exterior mirror replacement.
- **Interior Trim:** Removal and installation of dashboard components, door panels, and console.
- **Seats and Seatbelts:** Removal, installation, and inspection.
- **Airbag System (SRS):** Safety precautions and component replacement procedures.

Careful attention to detail is required when working with body and interior components to prevent damage.

Troubleshooting and Diagnostics

This section is dedicated to assisting in the diagnosis of common vehicle problems. It includes:

- **Diagnostic Trouble Codes (DTCs):** A list of OBD-II codes with their descriptions and potential causes.
- **Symptom-Based Diagnostics:** Flowcharts and procedures for diagnosing issues based on observed symptoms (e.g., "engine cranks but won't start," "poor braking performance").
- **Component Testing:** Step-by-step instructions for testing individual sensors, actuators, and modules.

Effective troubleshooting relies on systematic analysis and careful adherence to the diagnostic steps outlined.

Technical Specifications

This section provides critical technical data and specifications necessary for accurate repair and assembly:

Key Specifications Overview

Category	Description
Engine Torque Specifications	Cylinder head bolts, connecting rod bolts, main bearing caps.
Fluid Capacities	Engine oil, transmission fluid, coolant, brake fluid.
Alignment Specifications	Camber, caster, toe for front and rear suspension.
Electrical Values	Sensor resistances, voltage ranges, fuse ratings.

Always refer to the specific tables within the manual for precise values, as they may vary by engine type or trim level.

Support and Additional Resources

This manual is designed to be a standalone resource for the 1999 Mazda Millenia. For further assistance or clarification on specific procedures, it is recommended to consult a certified Mazda technician or an authorized service center. While this manual provides comprehensive guidance, professional expertise may be required for certain complex repairs or specialized diagnostic equipment.
For updates or errata related to this publication, please refer to the publisher's official website or contact their customer support directly. Always ensure you are using the most current version of the manual for accurate information.

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