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Model: B761 Dacia Sandero 1.4i MPI GPL | **Publisher:** Etai

INTRODUCTION

This technical manual, reference RTA B761, provides comprehensive information for the maintenance, repair, and adjustment of the Dacia Sandero 1.4i MPI GPL vehicles manufactured between March 2009 and December 2010. It is designed for both professional mechanics and informed enthusiasts seeking detailed technical data and step-by-step procedures to service their vehicle.

The content covers various aspects of the vehicle, including engine mechanics, transmission, braking systems, electrical components, and chassis. Utilizing this manual can assist in diagnosing issues, performing routine servicing, and undertaking more complex repairs.

VEHICLE OVERVIEW

The Dacia Sandero 1.4i MPI GPL is a compact car known for its robust design and economical operation, particularly with its bi-fuel (petrol and LPG) engine. This manual specifically addresses models equipped with the 1.4-liter Multi-Point Injection (MPI) engine, adapted for Liquefied Petroleum Gas (GPL) operation.



Image: Cover of the RTA B761 Dacia Sandero 1.4i MPI GPL Technical Manual. This image displays the front cover of the technical review, featuring the vehicle model and publication details.

Key Features:

- **Engine:** 1.4i MPI (Multi-Point Injection)
- **Fuel Type:** Petrol and GPL (Bi-fuel)
- **Production Years Covered:** March 2009 to December 2010
- **Vehicle Type:** Compact Hatchback

TECHNICAL SPECIFICATIONS

This section provides detailed technical data for the Dacia Sandero 1.4i MPI GPL. All values are approximate and may vary slightly based on specific vehicle configurations and market regions. Refer to the manual for precise figures.

Engine Specifications (1.4i MPI GPL)

Parameter	Value
Engine Type	4-cylinder, in-line, MPI
Displacement	1390 cm³
Max Power (Petrol)	75 hp (55 kW) at 5250 rpm
Max Power (GPL)	72 hp (53 kW) at 5250 rpm
Max Torque (Petrol)	112 Nm at 3000 rpm
Max Torque (GPL)	108 Nm at 3000 rpm
Fuel System	Multi-point electronic injection (Petrol), Specific GPL injection system

General Vehicle Dimensions

Parameter	Value
Length	4020 mm
Width (without mirrors)	1746 mm
Height	1534 mm
Wheelbase	2588 mm

MAINTENANCE PROCEDURES

Regular maintenance is crucial for the longevity and optimal performance of your Dacia Sandero. This section outlines typical maintenance tasks. Always refer to the full RTA manual for detailed instructions, specific intervals, and required tools.

Routine Checks (Every 10,000 km or 12 months):

- Engine oil and filter change
- Air filter inspection/replacement
- Cabin filter inspection/replacement

- Brake fluid level and condition check
- Coolant level and condition check
- Power steering fluid level check (if applicable)
- Tire pressure and wear inspection
- Lighting and signaling system check
- Wiper blade inspection

Periodic Maintenance (As per manufacturer schedule):

- Spark plug replacement
- Fuel filter replacement (petrol and GPL)
- Timing belt and accessory belt inspection/replacement
- Brake pad and disc inspection/replacement
- Suspension component inspection
- GPL system specific checks and filter replacement

Note: Always use genuine Dacia parts or equivalent quality parts for all maintenance and repair work. Consult the RTA for specific fluid types and capacities.

REPAIR PROCEDURES

The RTA B761 manual provides detailed, illustrated instructions for various repair tasks. This summary highlights common repair areas covered. Always follow safety precautions and refer to the full manual for step-by-step guidance.

Engine System Repairs:

- Cylinder head removal and installation
- Piston and connecting rod assembly procedures
- Crankshaft and main bearing replacement
- Valve timing adjustment and component replacement
- Fuel injector testing and replacement (petrol and GPL)
- Ignition system component replacement

Transmission and Drivetrain:

- Clutch assembly replacement
- Manual gearbox removal, overhaul, and installation
- Drive shaft inspection and replacement

Braking System:

- Brake caliper service and pad replacement
- Brake disc replacement
- Brake fluid bleeding procedures
- ABS system component checks

Electrical System:

- Alternator and starter motor replacement
- Battery testing and replacement

- Fuse box and relay identification
- Sensor testing and replacement (e.g., oxygen sensor, crankshaft position sensor)

TROUBLESHOOTING GUIDE

This section provides a general guide to common issues you might encounter with your Dacia Sandero 1.4i MPI GPL. For detailed diagnostic procedures and specific solutions, consult the full RTA manual.

Engine Related Issues:

- **Engine cranks but won't start:** Check fuel supply (petrol/GPL), ignition system, battery charge, and immobilizer.
- **Rough idling or misfires:** Inspect spark plugs, ignition coils, fuel injectors, and air intake system.
- **Loss of power:** Examine air filter, fuel filter, catalytic converter, and engine sensors.
- **Overheating:** Check coolant level, radiator, thermostat, and cooling fan operation.

Braking System Issues:

- **Squealing or grinding noise:** Indicates worn brake pads or discs.
- **Soft brake pedal:** May suggest air in the hydraulic system or a fluid leak.
- **Vehicle pulls to one side during braking:** Could be uneven brake wear or a faulty caliper.

GPL System Specific Issues:

- **Difficulty switching to GPL:** Check GPL tank level, GPL filter, and system pressure.
- **Reduced performance on GPL:** Inspect GPL injectors, reducer, and electronic control unit.

SAFETY INFORMATION

Working on a vehicle can be dangerous. Always prioritize safety. This manual provides general safety guidelines. Refer to the RTA for specific safety warnings related to each procedure.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Ensure the vehicle is securely supported on jack stands before working underneath it. Never rely solely on a jack.
- Disconnect the battery's negative terminal before working on any electrical components.
- Be aware of hot engine components and fluids. Allow the engine to cool before servicing.
- Exercise extreme caution when working with fuel systems, especially the GPL system, due to flammability and pressure. Ensure adequate ventilation.
- Do not smoke or use open flames near fuel or battery.
- Dispose of fluids and parts responsibly according to local regulations.

SUPPORT

For further technical assistance or inquiries regarding the RTA B761 manual, please contact the publisher, Etai. While this document provides a summary, the full manual contains extensive details and illustrations.

Publisher: Etai

Refer to the contact information provided within the physical manual or on the publisher's official website for direct support.

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