

25352275

Generic Fuel Pressure Regulator 3.0 Bar

MODEL: 25352275 (FOR GREAT WALL / HAVAL)

Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the Generic 3.0 Bar Fuel Pressure Regulator, model 25352275. This component is crucial for maintaining consistent fuel pressure within your vehicle's fuel delivery system, ensuring an optimal fuel-air mixture ratio for efficient combustion and smooth engine operation. Proper installation and adherence to safety guidelines are vital for the longevity and performance of both the regulator and your vehicle's engine.

2. Product Overview

The fuel pressure regulator is designed to manage and stabilize the fuel pressure supplied to the engine. It features a robust construction for durability and corrosion resistance, ensuring reliable performance under various operating conditions. The internal mechanism is engineered to provide stable regulation, preventing fluctuations that could impact engine efficiency or lead to safety concerns.



Figure 2.1: Side view of the fuel pressure regulator, showing its metallic body and sealing rings.



Figure 2.2: Top-down view of the regulator, highlighting the various colored sealing rings and the pressure outlet.



Figure 2.3: Close-up of the regulator's filter end, showing the fine mesh filter and associated seals.

3. Specifications

Feature	Detail
Brand Name	Generic
Manufacturer	dongmeiypai
Manufacturer Part Number	4951020203918
ASIN	B0G399DFXV
Pressure Rating	3.0 Bar
Compatibility	Great Wall, Haval (Model 25352275)

4. Safety Information

Working with fuel systems involves inherent risks. Always prioritize safety to prevent injury or damage to your vehicle. This fuel pressure regulator is designed to prevent pressure fluctuations that could lead to leaks or inefficient combustion, thereby reducing the risk of engine misfire or other hazards. Its stable operation contributes to the overall safety of the fuel system and engine.

- Always disconnect the vehicle's battery before beginning any work on the fuel system.
- Ensure the engine is cool and depressurize the fuel system before attempting removal or installation.
- Work in a well-ventilated area, away from open flames or sparks.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Have a fire extinguisher readily available.
- Dispose of fuel and related components according to local environmental regulations.

5. Installation

The design of this fuel pressure regulator facilitates straightforward installation and replacement. However, due to the critical nature of fuel system components, **professional installation is strongly recommended** to ensure correct fitment, proper sealing, and optimal performance. Incorrect installation can lead to fuel leaks, engine damage, or safety hazards.

1. Refer to your vehicle's specific service manual for detailed instructions on accessing and replacing the fuel pressure regulator for Great Wall or Haval models compatible with part number 25352275.
2. Ensure the fuel system is depressurized and all safety precautions are observed (refer to Section 4).
3. Carefully remove the old fuel pressure regulator, noting the orientation and connections.
4. Inspect the mounting area and any associated hoses or lines for damage or wear. Replace as necessary.
5. Install the new Generic fuel pressure regulator, ensuring all seals and O-rings are correctly seated and not pinched.
6. Secure all connections and fasteners to the manufacturer's specified torque.
7. After installation, re-pressurize the fuel system and carefully check for any leaks before starting the engine.
8. Start the engine and monitor for proper operation and any warning lights.

6. Operation

Once installed, the fuel pressure regulator operates continuously to maintain a constant fuel pressure within the fuel rail. This constant pressure is critical for the fuel injectors to deliver the precise amount of fuel required by the engine's control unit. By effectively regulating system fuel pressure, this valve ensures efficient fuel delivery, optimizes combustion, and contributes to improved overall engine efficiency and performance.

The regulator's stable performance ensures that the engine receives the correct fuel-air mixture under varying load and speed conditions, preventing issues such as rough idling, hesitation, or reduced power output.

7. Maintenance

The Generic Fuel Pressure Regulator is designed for long-term reliability and typically requires minimal maintenance. However, regular inspection of the surrounding fuel system components can help ensure its continued optimal performance:

- **Visual Inspection:** Periodically check the regulator and its connections for any signs of fuel leaks, corrosion, or physical damage.
- **Hose and Line Check:** Inspect fuel hoses and lines connected to the regulator for cracks, hardening, or swelling. Replace any damaged components.
- **Fuel Filter:** Ensure your vehicle's fuel filter is replaced at recommended intervals. A clogged fuel filter can indirectly affect the regulator's performance by restricting fuel flow.
- **Professional Check:** During routine vehicle servicing, ask your mechanic to check the fuel system pressure to confirm the regulator is functioning within specifications.

8. Troubleshooting

If you suspect an issue with your fuel pressure regulator or experience symptoms related to fuel delivery, consider the following common troubleshooting steps. Always consult a qualified mechanic for diagnosis and repair.

- **Engine Hard Starting / No Start:** This could indicate insufficient fuel pressure. Check for fuel pump operation and fuel filter condition.
- **Rough Idling / Misfires:** Inconsistent fuel pressure can lead to an improper fuel-air mixture.
- **Reduced Engine Performance / Poor Acceleration:** If the engine is not receiving adequate fuel pressure, it may lack power.
- **Fuel Leaks:** Visually inspect the regulator and connections for any signs of fuel leakage. Address immediately.
- **Check Engine Light:** A faulty fuel pressure regulator can trigger a 'Check Engine' light, often accompanied by specific diagnostic trouble codes (DTCs) related to fuel system pressure.

A fuel pressure gauge is required to accurately diagnose fuel pressure issues. If you are not equipped or experienced with such diagnostics, seek professional assistance.

9. Support

For technical assistance, questions regarding compatibility, or any concerns about your Generic Fuel Pressure Regulator, please contact the seller or manufacturer directly. When contacting support, please provide your product model number (25352275) and any relevant vehicle information to facilitate a quicker resolution.

Always ensure to check the vehicle model before placing your order to avoid purchasing the wrong part. If you have any questions, please feel free to contact us.