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> Electric Fuel Pump User Manual for Mercedes-Benz W202 C230 C240 C280 CLK320

LUOXINYAN01 XINXINMAOYI

Electric Fuel Pump User Manual

Model: XINXINMAOYI | Brand: LUOXINYAN01

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the LUOXINYAN01 Electric Fuel Pump, model XINXINMAOYI. This product is designed as a replacement part compatible with specific Mercedes-Benz W202 models, including C230, C240, C280, and CLK320. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Important Safety Notice: Installation of automotive parts should ideally be performed by a qualified professional. Incorrect installation can lead to vehicle damage, personal injury, or fire. Always disconnect the vehicle's battery before beginning any work on the fuel system.

2. PRODUCT OVERVIEW AND COMPONENTS

The electric fuel pump is a critical component of your vehicle's fuel delivery system, responsible for supplying fuel from the tank to the engine at the correct pressure. This specific model is engineered for compatibility with the listed Mercedes-Benz vehicles.



Figure 2.1: Front view of the electric fuel pump, showing the main body, electrical connector, and fuel line fitting. This image highlights the overall compact design and the integrated wiring harness.

OE:0004704994

721810500



Figure 2.2: Rear view of the fuel pump, clearly displaying the OEM reference numbers 0004704994 and 721810500, which confirm its compatibility with original equipment specifications.



Figure 2.3: Side profile of the fuel pump, illustrating its cylindrical shape and the protective cap on one of the fuel line connections, indicating a new, unused component.



Figure 2.4: Detailed view of the electrical terminal block and a securing screw, showing the robust construction of the connection points for reliable power supply.

Package Contents:

- 1 x Electric Fuel Pump

3. SPECIFICATIONS

Feature	Value
Flow Rate	115 l/h
Input Voltage	12 V
Operating Pressure	4 bar
Material Type	Stainless Steel
Item Weight	0.8 kg (approx. 1.76 ounces as per some specifications)
Manufacturer Part Number	RSC1125
OEM NO.	0004704994, 0004706394, 0004705494, 722020500, TRE-434
Fit Type	Universal Fit (<i>Note: While listed as universal, this product is specifically compatible with Mercedes-Benz W202 models as per product title.</i>)

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of the fuel pump. It is highly recommended that installation be performed by a certified automotive technician.

General Installation Steps (Consult Vehicle Service Manual for Specifics):

- Safety First:** Ensure the vehicle is parked on a level surface, the engine is off and cool, and the parking brake is engaged. Disconnect the negative terminal of the vehicle's battery.
- Depressurize Fuel System:** Refer to your vehicle's service manual for the correct procedure to safely depressurize the fuel system. This is critical to prevent fuel spray and fire hazards.
- Locate Old Fuel Pump:** The fuel pump is typically located inside or near the fuel tank. Access may require lifting the vehicle and removing protective covers or the fuel tank itself.
- Disconnect Electrical and Fuel Lines:** Carefully disconnect the electrical connector and fuel lines from the old pump. Be prepared for residual fuel leakage and have appropriate containers and rags ready.
- Remove Old Pump:** Unfasten any mounting bolts or retaining rings securing the old fuel pump. Remove it from its housing.
- Install New Pump:** Install the new LUOXINYAN01 fuel pump into the housing, ensuring all seals and gaskets are correctly seated. Connect the fuel lines and electrical connector securely. Double-check all connections.
- Reassemble:** Reinstall any components removed to gain access (e.g., fuel tank, protective covers).
- Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
- Check for Leaks:** Turn the ignition to the "ON" position (without starting the engine) for a few seconds to allow the fuel pump to prime the system. Check for any fuel leaks around the newly installed pump and connections. Repeat priming if necessary.
- Start Engine:** Start the engine and allow it to run for a few minutes, checking for smooth operation and any warning lights.

Note: Always use appropriate tools and personal protective equipment (PPE) during installation.

5. OPERATING PRINCIPLES

The electric fuel pump operates by drawing fuel from the vehicle's fuel tank and delivering it under pressure to the engine's fuel injection system. When the ignition is turned on, the vehicle's computer (ECU) activates the fuel pump relay, which in turn powers the electric motor within the pump. This motor drives an impeller or roller mechanism, creating the necessary pressure and flow rate to ensure a consistent supply of fuel to the engine for optimal combustion.

Key operational characteristics include:

- **Consistent Fuel Delivery:** Maintains a steady flow rate of 115 l/h and an operating pressure of 4 bar to meet engine demands.
- **Voltage Requirement:** Designed to operate efficiently on a standard 12V automotive electrical system.
- **Smooth Operation:** Engineered for strong starts and smooth, quiet operation, contributing to overall vehicle performance.
- **Durability:** Constructed with stainless steel components for enhanced longevity and resistance to fuel corrosion.

6. MAINTENANCE

While the electric fuel pump itself is largely maintenance-free, its longevity and performance are directly affected by the overall health of your vehicle's fuel system. Consider the following for optimal performance:

- **Fuel Filter Replacement:** Regularly replace your vehicle's fuel filter according to the manufacturer's recommendations. A clogged fuel filter can put excessive strain on the fuel pump, leading to premature failure.
- **Fuel Quality:** Use high-quality fuel. Contaminants in low-quality fuel can clog the pump's internal filter or damage its components.
- **Avoid Running on Low Fuel:** Consistently running your vehicle with very low fuel levels can cause the fuel pump to overheat, as fuel acts as a coolant for the pump motor.
- **System Checks:** During routine vehicle maintenance, have your mechanic inspect the fuel lines and connections for any signs of leaks or damage.

7. TROUBLESHOOTING

If you experience issues with your vehicle's fuel delivery, the fuel pump may be a contributing factor. Below are common symptoms and potential causes. Always consult a qualified mechanic for diagnosis and repair.

Symptom	Possible Cause	Action
Engine Cranks but Won't Start	No fuel pressure; faulty fuel pump relay; clogged fuel filter.	Check fuel pump fuse/relay. Listen for pump priming sound when ignition is turned on. Inspect fuel filter. Professional diagnosis recommended.
Engine Stalling or Misfiring	Insufficient fuel pressure; intermittent pump failure; clogged fuel filter.	Check fuel pressure. Inspect fuel filter. Seek professional diagnosis.
Loss of Power During Acceleration	Fuel pump not delivering enough fuel under load.	Verify fuel pressure under load. Consider professional inspection of fuel system.
Whining Noise from Fuel Tank Area	Fuel pump working harder due to restriction (e.g., clogged filter) or nearing end of life.	Check fuel filter. If noise persists, professional inspection of pump is advised.

Disclaimer: This troubleshooting guide is for informational purposes only and does not replace professional automotive diagnosis.

8. WARRANTY AND SUPPORT

Specific warranty information for this LUOXINYAN01 product is not provided within this manual. For details regarding warranty coverage, terms, and conditions, please refer to the product packaging or contact the manufacturer directly through their official support channels. Keep your purchase receipt as proof of purchase.

For technical support or further inquiries, please contact LUOXINYAN01 customer service.

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