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Volkswagen Fuel Pump 1J0-919-087S Instruction Manual

Model: 1J0-919-087S

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1. INTRODUCTION

This instruction manual provides important information for the proper installation, operation, and maintenance of your Volkswagen Fuel Pump, model 1J0-919-087S. This electric fuel pump is designed to deliver fuel efficiently to your vehicle's engine. Please read this manual thoroughly before proceeding with installation or any related procedures to ensure safe and correct usage.

2. SAFETY INFORMATION

Warning: Working with fuel systems involves flammable materials and high pressures. Improper installation or handling can lead to fire, explosion, serious injury, or death. It is highly recommended that installation be performed by a qualified automotive technician.

- Always disconnect the vehicle's battery before beginning any work on the fuel system.
- Ensure the work area is well-ventilated and free from open flames, sparks, or other ignition sources.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Relieve fuel system pressure before disconnecting any fuel lines. Refer to your vehicle's service manual for specific procedures.
- Handle fuel carefully to prevent spills. Clean up any spills immediately.
- Do not modify the fuel pump or any associated components.

3. PRODUCT OVERVIEW

The Volkswagen Fuel Pump 1J0-919-087S is an original equipment (OE) replacement part designed for specific Volkswagen vehicles. It is constructed from durable metal for reliable performance.

Key Features:

- **Vehicle Specific Fit:** Engineered to precisely fit compatible Volkswagen models.
- **Metal Construction:** Ensures durability and long-lasting performance.

- **Tank Mount:** Designed for secure installation within the fuel tank.
- **Electric Operation:** Provides consistent fuel delivery to the engine.

What's in the Box:

- 1 x Volkswagen Fuel Pump (Model 1J0-919-087S)

Note: The fuel level sending unit is typically not included with this fuel pump and must be transferred from the old assembly or purchased separately.



Image 3.1: The Volkswagen Fuel Pump, model 1J0-919-087S. This image displays the complete fuel pump assembly, highlighting its design and components.

4. INSTALLATION

Installation of a fuel pump requires specialized tools and knowledge. If you are not experienced with automotive repairs, it is strongly recommended to seek professional assistance.

General Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative terminal of the battery.
2. **Relieve Fuel Pressure:** Consult your vehicle's service manual for the correct procedure to relieve fuel system pressure. This is a critical safety step.
3. **Access the Fuel Pump:** Depending on your vehicle model, the fuel pump may be accessed from under the rear seat, through an access panel in the trunk, or by dropping the fuel tank.
4. **Disconnect Components:** Disconnect electrical connectors, fuel lines, and any other components attached to the fuel pump assembly. Be prepared for residual fuel to spill.

5. **Remove Old Fuel Pump:** Carefully remove the retaining ring or bolts securing the old fuel pump assembly in the fuel tank. Extract the old pump.
6. **Transfer Sending Unit:** If your new fuel pump does not include a fuel level sending unit, carefully transfer the existing one from the old pump to the new Volkswagen Fuel Pump 1J0-919-087S. Ensure it is properly seated and secured.
7. **Install New Fuel Pump:** Insert the new fuel pump assembly into the fuel tank, ensuring the O-ring or gasket is correctly positioned to prevent leaks. Secure it with the retaining ring or bolts.
8. **Reconnect Components:** Reconnect all fuel lines and electrical connectors. Ensure all connections are secure and free from leaks.
9. **Reconnect Battery and Test:** Reconnect the vehicle's battery. Turn the ignition to the 'ON' position (without starting the engine) for a few seconds to allow the fuel pump to prime the system. Repeat this a few times. Check for any fuel leaks.
10. **Start Engine:** Start the engine and check for proper operation and any warning lights.

5. OPERATION

The Volkswagen Fuel Pump 1J0-919-087S is an electric component that operates automatically when the vehicle's ignition is turned on. Its primary function is to draw fuel from the fuel tank and deliver it under pressure to the engine's fuel injection system. This ensures a consistent supply of fuel for combustion.

- When the ignition is turned to the 'ON' position, the fuel pump primes the system, building pressure in the fuel lines.
- Once the engine starts, the fuel pump continuously operates to maintain the required fuel pressure for optimal engine performance.
- The pump's operation is controlled by the vehicle's engine control unit (ECU) based on engine demands.

6. MAINTENANCE

While the fuel pump itself is generally a sealed unit and not user-serviceable, proper maintenance of the overall fuel system can extend its lifespan and ensure reliable operation.

- **Fuel Filter Replacement:** Regularly replace your vehicle's fuel filter according to the manufacturer's recommended service intervals. A clogged fuel filter can put excessive strain on the fuel pump.
- **Use Quality Fuel:** Always use high-quality, clean fuel. Contaminants in fuel can damage the fuel pump and clog the fuel system.
- **Avoid Running on Low Fuel:** Consistently running your vehicle with a very low fuel level can cause the fuel pump to overheat, as fuel helps to cool the pump motor.
- **Inspect Fuel Lines:** Periodically inspect fuel lines for any signs of leaks, cracks, or damage.

7. TROUBLESHOOTING

If you experience issues with your vehicle's fuel delivery, consider the following common symptoms related to a failing fuel pump. Always consult a qualified technician for diagnosis and repair.

Common Symptoms of a Failing Fuel Pump:

- **Engine Cranks but Won't Start:** A complete failure of the fuel pump will prevent fuel from reaching the engine.
- **Engine Sputtering or Misfiring:** Inconsistent fuel delivery can cause the engine to run roughly, especially under acceleration.
- **Loss of Power Under Load:** The engine may struggle to maintain speed or accelerate, particularly when going uphill or carrying heavy loads.
- **Whining Noise from Fuel Tank:** A failing fuel pump may produce an audible whining or humming sound from the rear of the vehicle, where the fuel tank is located.

- **Check Engine Light:** The vehicle's onboard diagnostic system may trigger a 'Check Engine' light with a related fault code.

If you encounter any of these symptoms, it is advisable to have your vehicle inspected by a professional to determine the root cause.

8. SPECIFICATIONS

Feature	Detail
Brand	Volkswagen
Model Number	1J0-919-087S
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Car
Material	Metal
Auto Part Position	Rear
Mounting Type	Tank Mount
Operation Mode	Electric
Gas Type	Gasoline
Item Weight	3.62 pounds
OEM Part Numbers	1J0919051Q, 1J0919087S, 1JM919051A, 1J0919087Q
GTIN	753182847702

9. WARRANTY & SUPPORT

This Volkswagen Fuel Pump is covered by the manufacturer's standard warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact Volkswagen customer support directly.

Customer Support:

For technical assistance, warranty claims, or any questions regarding your Volkswagen Fuel Pump 1J0-919-087S, please contact your authorized Volkswagen dealer or visit the official Volkswagen website for support contact information.

- **Official Volkswagen Website:** www.vw.com (or your regional Volkswagen website)
- **Authorized Dealer:** Locate your nearest authorized Volkswagen service center for professional assistance.