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› AUTO-GETHER Fuel Pump 42021-AJ220 Instruction Manual

AUTO-GETHER 42021-AJ220

AUTO-GETHER Fuel Pump Instruction Manual

Model: 42021-AJ220 / 42021AJ220

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your AUTO-GETHER Fuel Pump, OE Part Number 42021-AJ220 / 42021AJ220. This fuel pump is designed to deliver fuel from the tank to the engine's fuel system, ensuring optimal engine performance and efficiency. Please read this manual thoroughly before attempting any installation or service.

2. SAFETY INFORMATION

Working with automotive fuel systems can be hazardous. Always prioritize safety to prevent injury or damage.

- **Professional Installation Recommended:** Due to the complexity and safety risks associated with fuel system components, professional installation by a certified mechanic is highly recommended.
- **Fire Hazard:** Fuel is highly flammable. Ensure the work area is well-ventilated and free from open flames, sparks, or any ignition sources. Disconnect the vehicle's battery before starting work.
- **Personal Protective Equipment:** Always wear appropriate personal protective equipment, including safety glasses, gloves, and protective clothing.
- **Fuel Pressure:** The fuel system operates under pressure. Relieve fuel pressure according to the vehicle manufacturer's service manual before disconnecting any fuel lines.
- **Proper Disposal:** Dispose of old fuel, filters, and other components according to local environmental regulations.
- **Vehicle Specific Procedures:** Always refer to your vehicle's specific service manual for detailed instructions on fuel pump replacement and related procedures.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged.

- 1 x AUTO-GETHER Fuel Pump Assembly (OE NO.: 42021-AJ220 / 42021AJ220)



Figure 3.1: Complete AUTO-GETHER Fuel Pump Assembly. This image shows the main fuel pump unit with its integrated fuel level sender and electrical connections.

4. INSTALLATION (SETUP)

The installation of a fuel pump requires specific tools and knowledge of automotive systems. If you are not experienced with such repairs, it is strongly advised to seek assistance from a qualified mechanic.

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

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative terminal of the battery. Ensure the fuel tank is as empty as possible.
2. **Access Fuel Pump:** Depending on the vehicle model, the fuel pump is typically accessed from under the rear seat, through the trunk, or by dropping the fuel tank.
3. **Relieve Fuel Pressure:** Follow the vehicle manufacturer's procedure to safely relieve fuel system pressure.
4. **Disconnect Components:** Disconnect electrical connectors, fuel lines, and any other hoses or wires attached to the fuel pump assembly. Be prepared for residual fuel spillage.
5. **Remove Old Pump:** Carefully remove the retaining ring or bolts securing the old fuel pump assembly. Extract the old pump from the fuel tank opening.
6. **Install New Pump:** Install the new AUTO-GETHER fuel pump assembly, ensuring the new gasket or O-ring is properly seated. Secure the retaining ring or bolts.
7. **Reconnect Components:** Reconnect all fuel lines and electrical connectors. Ensure all connections are secure and free of leaks.

8. **Test System:** Reconnect the battery. Turn the ignition key to the "ON" position (without starting the engine) several times to prime the fuel system and check for leaks. Start the engine and check for proper operation and any diagnostic trouble codes.

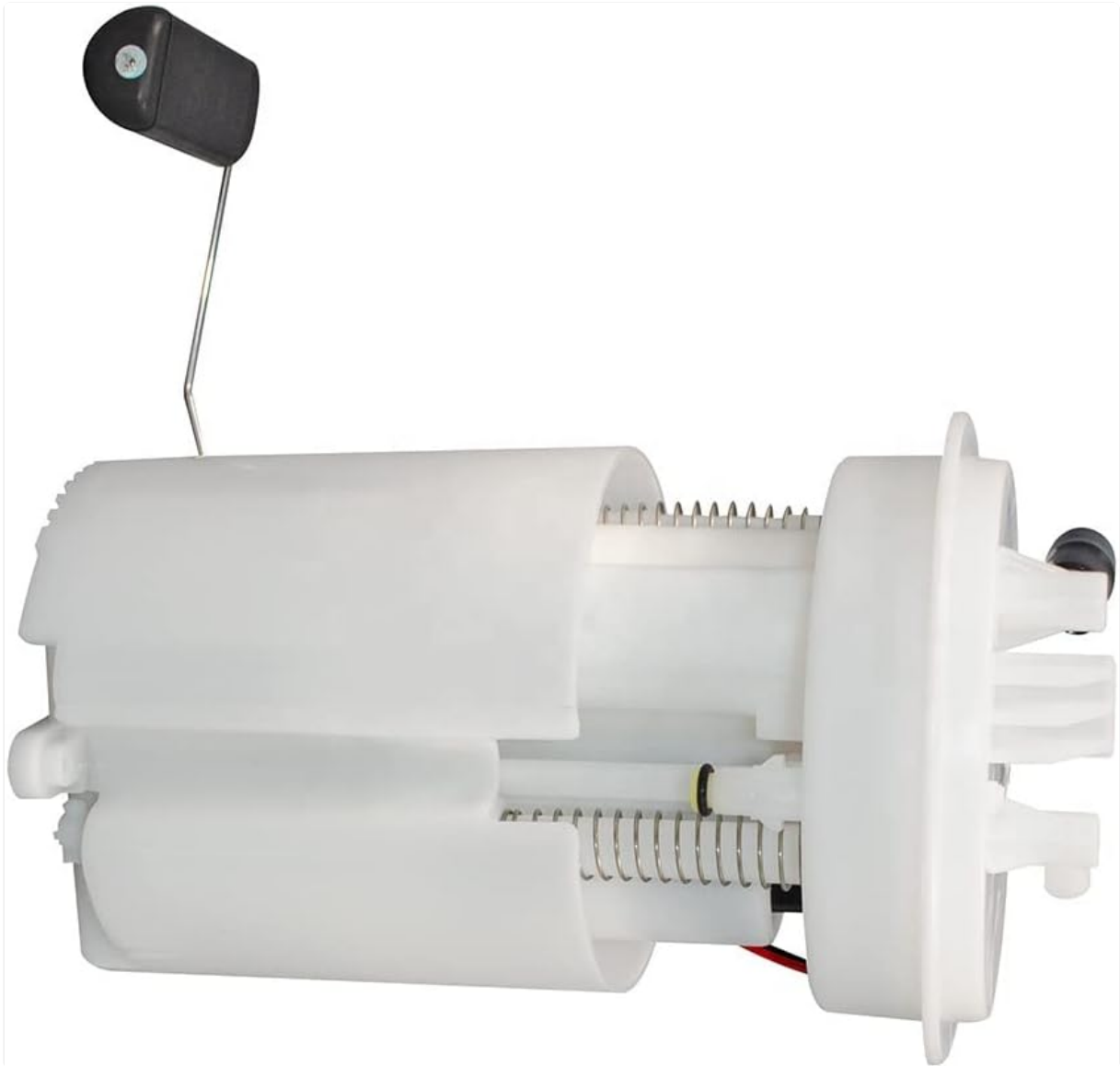


Figure 4.1: Side view of the fuel pump assembly, highlighting the main pump body and filter housing. This view is useful for understanding the pump's orientation during installation.



Figure 4.2: Fuel pump assembly showing the integrated fuel level sender float arm. Proper positioning of this arm is critical for accurate fuel gauge readings after installation.

5. OPERATION

The AUTO-GETHER Fuel Pump operates automatically as part of your vehicle's fuel delivery system. When the ignition is turned on, the pump activates to pressurize the fuel lines, delivering fuel from the tank to the engine's fuel injectors or carburetor. The integrated fuel level sender provides accurate fuel level readings to your vehicle's dashboard gauge.

Proper operation is indicated by consistent engine performance, smooth acceleration, and accurate fuel gauge readings. Any deviation from these can indicate a potential issue with the fuel pump or related components.

6. MAINTENANCE

While the fuel pump itself is generally a sealed unit and requires no direct maintenance, maintaining the overall fuel system is crucial for its longevity and performance.

- **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, leading to premature failure.

- **Use Quality Fuel:** Always use clean, high-quality fuel from reputable sources. Contaminated fuel can damage the fuel pump and other fuel system components.
- **Avoid Running on Low Fuel:** Consistently running your vehicle with a very low fuel level can cause the fuel pump to overheat, as the fuel itself helps to cool the pump motor.

7. TROUBLESHOOTING

If you experience issues with your vehicle's fuel delivery, consider the following 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, clogged fuel filter, electrical issue.	Check fuel pressure, inspect fuel pump fuse/relay, consult mechanic.
Engine misfires or stumbles under acceleration	Insufficient fuel delivery, weak fuel pump, clogged fuel filter.	Check fuel pressure, replace fuel filter, consult mechanic.
Whining noise from fuel tank	Failing fuel pump, clogged fuel filter, low fuel level.	Check fuel level, replace fuel filter, consider fuel pump inspection.
Inaccurate fuel gauge reading	Faulty fuel level sender (integrated with pump), electrical issue.	Inspect wiring, consult mechanic for diagnosis of sender unit.



Figure 7.1: Rear view of the fuel pump assembly, showing electrical connectors and outlet ports. These connections are critical for proper function and should be inspected during troubleshooting.

8. SPECIFICATIONS

Key specifications for the AUTO-GETHER Fuel Pump:

- **Brand:** AUTO-GETHER
- **OEM Part Number:** 42021-AJ220, 42021AJ220
- **Item Model Number:** AUTO PARTS
- **Manufacturer Part Number:** 9331758076032
- **Fit Type:** Vehicle Specific Fit
- **Vehicle Service Type:** Car
- **Specification Met:** OE (Original Equipment)
- **Auto Part Position:** Front (Note: This might refer to the engine bay, but fuel pumps are typically in the tank at the rear. Clarification might be needed if this is a transfer pump or specific vehicle setup.)

- **Country of Origin:** China

9. WARRANTY AND SUPPORT

AUTO-GETHER stands behind the quality of its products. For any questions regarding this fuel pump, including installation, compatibility, or performance issues, please contact AUTO-GETHER customer support. Refer to your purchase documentation for specific warranty terms and conditions.

AUTO-GETHER: Your Car Part Solution.

For support, please visit the [AUTO-GETHER Store on Amazon](#) or contact their customer service as indicated on your product packaging or purchase receipt.