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> A-Premium Diesel Fuel Lift Pump System for Chevrolet Silverado & GMC Sierra (2015-2016 6.6L V8 Diesel) - Model TSC12100G
Instruction Manual

A-premium TSC12100G

A-Premium Diesel Fuel Lift Pump System Instruction Manual

Brand: A-Premium | Model: TSC12100G

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your A-Premium Diesel Fuel Lift Pump System, model TSC12100G. This system is designed as an OE replacement for specific vehicle applications.

Vehicle Compatibility:

- Chevrolet Silverado 2500 HD (2015-2016 V8 6.6L Diesel)
- Chevrolet Silverado 3500 HD (2015-2016 V8 6.6L Diesel)
- GMC Sierra 2500 HD (2015-2016 V8 6.6L Diesel)
- GMC Sierra 3500 HD (2015-2016 V8 6.6L Diesel)

Please verify your vehicle's compatibility before proceeding with installation.

2. PRODUCT OVERVIEW

The A-Premium Diesel Fuel Lift Pump System is engineered to deliver a consistent fuel flow of 100 Gallons Per Hour (GPH) at 12V, ensuring optimal performance for your diesel engine. It is constructed from durable metal, primarily alloy steel, for longevity and reliability.

Key Components:

- Fuel Lift Pump Assembly
- Fuel Hoses
- Mounting Brackets
- Wiring Harness
- Fittings and Clamps



Figure 2.1: Complete A-Premium Diesel Fuel Lift Pump System kit components.



Figure 2.2: A-Premium Diesel Fuel Lift Pump assembly with dual filters.



Figure 2.3: Fuel hose supplied with the system.



Figure 2.4: Wiring harness for electrical connection.

3. SAFETY INFORMATION

Always prioritize safety when working on vehicle fuel systems. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- **Disconnect Battery:** Always disconnect the vehicle's battery before beginning any electrical or fuel system work.
- **Fuel Handling:** Diesel fuel is flammable. Work in a well-ventilated area, away from open flames or sparks. Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- **Pressure Release:** Relieve fuel system pressure before disconnecting any fuel lines. Refer to your vehicle's service manual for the correct procedure.
- **Secure Vehicle:** Ensure the vehicle is securely supported on jack stands or a lift before working underneath it.
- **Professional Assistance:** If you are not confident in your ability to perform this installation, seek assistance from a qualified mechanic.

4. SETUP AND INSTALLATION

Installation of this diesel fuel lift pump system requires mechanical aptitude and familiarity with vehicle fuel systems. It is highly recommended to consult your specific vehicle's shop manual for detailed, step-by-step instructions pertinent to your model year and configuration.

General Installation Steps (Consult Vehicle Manual for Specifics):

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative battery terminal.
2. **Access:** Safely lift the vehicle to gain access to the fuel tank and existing fuel lines.
3. **Relieve Fuel Pressure:** Follow your vehicle's service manual to safely relieve fuel system pressure.
4. **Remove Old Components:** Carefully disconnect and remove the existing fuel lift pump or related components as per your vehicle's manual. Be prepared for fuel spillage and have appropriate containers.
5. **Mount New Pump:** Install the A-Premium lift pump assembly using the provided mounting brackets. Ensure it is securely fastened and positioned correctly.
6. **Connect Fuel Lines:** Connect the new fuel hoses and fittings to the pump and the vehicle's fuel system. Ensure all connections are tight and free of leaks.
7. **Wiring:** Connect the wiring harness to the new pump and integrate it into the vehicle's electrical system. Ensure proper grounding and fuse protection.
8. **Final Checks:** Double-check all connections, ensure no tools or debris are left in the work area, and reconnect the battery.
9. **Prime System:** Follow your vehicle's procedure to prime the fuel system and check for leaks before starting the engine.

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Video 4.1: Overview of the TSC10100G Fuel Lift Pump System Kit components. This video provides a visual representation of the parts included in a similar A-Premium fuel lift pump system, which can aid in identifying components during installation.

Attention: Please use the appropriate shop manual for your vehicle to obtain specific instructions. If you do not have an installation manual or enough skills to install this part, it is recommended that you seek help from a qualified mechanic.

5. OPERATING INSTRUCTIONS

Once properly installed, the A-Premium Diesel Fuel Lift Pump System operates automatically with your vehicle's ignition. Its primary function is to draw fuel from the tank and deliver it under pressure to the engine's fuel injection system, ensuring a consistent and adequate fuel supply.

- **Engine Start:** Upon turning the ignition key to the 'ON' position (before cranking), the lift pump will typically activate for a few seconds to prime the fuel system.
- **Continuous Operation:** The pump will continue to operate while the engine is running, maintaining the necessary fuel pressure and flow.
- **Monitoring:** Pay attention to any unusual noises from the fuel pump area or changes in engine performance, which could indicate a potential issue.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your diesel fuel lift pump system.

- **Fuel Filter Replacement:** The system includes fuel filters. Refer to your vehicle's service schedule for recommended fuel filter replacement intervals. Clogged filters can strain the pump and reduce fuel flow.
- **Inspect Fuel Lines:** Periodically inspect all fuel lines and connections for signs of wear, cracks, or leaks. Address any issues promptly.
- **Electrical Connections:** Check electrical connections to the pump for corrosion or looseness. Ensure they are clean and secure.
- **Cleanliness:** Keep the area around the fuel pump and filters clean to prevent contamination.

7. TROUBLESHOOTING

If you experience issues with your fuel lift pump system, consider the following common troubleshooting steps:

- **No Start/Hard Start:**

- Check for proper electrical connection to the pump.
- Verify the fuel pump fuse is intact.
- Ensure there is sufficient fuel in the tank.
- Check for clogged fuel filters.

- **Engine Stalling/Loss of Power:**

- Inspect fuel lines for restrictions or leaks.
- Check fuel filters for clogging.
- Verify adequate fuel pressure (requires specialized tools).

- **Unusual Noise from Pump:**

- Could indicate air in the fuel system or a failing pump. Ensure all connections are sealed.
- Check for proper mounting to prevent vibration.

For complex issues or if basic troubleshooting does not resolve the problem, it is recommended to consult a professional automotive technician.

8. SPECIFICATIONS

Parameter	Value
Model Number	TSC12100G, APDLPK009
Voltage	12V
Fuel Type	Diesel
Flow Rate	100 GPH
Material	Alloy Steel (Body)
Fit Type	Vehicle Specific Fit
Mounting Type	Front Mount
Inlet Connection Type	Threaded (NPT)
Outlet Connection Type	NPT
Item Weight	11.47 Kilograms
Country of Origin	China

9. WARRANTY AND SUPPORT

A-Premium offers a one-year unlimited-mileage quality guarantee on this Diesel Fuel Lift Pump System. This guarantee covers the cost of the item itself. Please note that it does not cover installation fees, labor expenses,

towing expenses, additional repair expenses, or other related costs.

For further assistance, technical support, or warranty claims, please contact A-Premium customer service through their official channels or visit their store page: [A-Premium Store](#).