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› Stens 520-167 OEM Fuel Pump User Manual

Stens 520-167

Stens 520-167 OEM Fuel Pump User Manual

Model: 520-167

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Stens 520-167 OEM Fuel Pump. This fuel pump is designed as a direct replacement for E-Z-GO part number 602061 and Walbro part number FPC-1-1. Please read this manual thoroughly before attempting any installation or service.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in serious injury or property damage.

- Always disconnect the battery and ensure the engine is cool before performing any service or installation.
- Fuel is highly flammable. Work in a well-ventilated area away from open flames, sparks, or other ignition sources.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure all fuel lines are securely connected and free from leaks after installation.
- **This fuel pump is NOT compatible with fuels containing greater than 10% ethanol.** Using fuels with higher ethanol content may cause premature failure of the pump and other fuel system components.
- Dispose of old fuel and components according to local environmental regulations.

3. PRODUCT OVERVIEW

The Stens 520-167 is an OEM replacement fuel pump designed for various small engines, including those found in tractors and other equipment. It functions by using engine vacuum pulses to draw fuel from the tank and deliver it to the carburetor. This ensures a consistent fuel supply for optimal engine performance.



Figure 1: Stens 520-167 OEM Fuel Pump. This image shows the black plastic fuel pump with three hose barb connections and four mounting screw holes. The central circular diaphragm cover is visible.

This pump is compatible with Briggs & Stratton, Kohler, and Kawasaki engines, provided there is adequate space for installation and the engine utilizes a pulse-type fuel pump system.

4. SETUP AND INSTALLATION

Proper installation is crucial for the correct function and longevity of the fuel pump. If you are unsure about any step, consult a qualified technician.

1. **Preparation:** Ensure the engine is off and cool. Disconnect the negative terminal of the battery. Place absorbent rags under the fuel pump area to catch any spilled fuel.
2. **Remove Old Pump:** Carefully disconnect the fuel lines from the old pump, noting which line connects to the fuel tank (inlet), carburetor (outlet), and engine pulse port. Remove any mounting screws or clamps securing the old pump.
3. **Inspect Lines:** Examine existing fuel lines for cracks, hardening, or damage. Replace any compromised lines to prevent future fuel leaks or delivery issues.

4. **Install New Pump:** Position the Stens 520-167 fuel pump in the same location as the old pump. Secure it using the original mounting hardware. The pump body may need to be 're-clocked' or rotated slightly to align the fittings correctly with your existing fuel lines.
5. **Connect Fuel Lines:** Connect the fuel lines to the new pump. Ensure the inlet line (from the fuel tank), outlet line (to the carburetor), and pulse line (to the engine) are connected to the correct ports on the pump. Secure all connections with appropriate clamps to prevent leaks.
6. **Final Checks:** Reconnect the battery. Before starting the engine, visually inspect all connections for leaks. Prime the fuel system if necessary according to your engine manufacturer's instructions.
7. **Test Operation:** Start the engine and check for proper fuel delivery and any leaks. Allow the engine to run for a few minutes to ensure stable operation.

5. OPERATION

Once correctly installed, the Stens 520-167 fuel pump operates automatically with the engine. As the engine runs, it creates vacuum pulses that act on the pump's diaphragm, drawing fuel from the tank and pushing it towards the carburetor. This continuous process maintains the necessary fuel pressure and flow for the engine to operate efficiently.

6. MAINTENANCE

The Stens 520-167 fuel pump is designed for reliable operation with minimal maintenance. However, periodic checks of the fuel system are recommended.

- **Fuel Line Inspection:** Regularly inspect fuel lines for signs of wear, cracking, or leaks. Replace damaged lines promptly.
- **Fuel Filter:** Ensure your fuel system has a clean, functional fuel filter between the tank and the pump to prevent contaminants from reaching the pump and carburetor. Replace the fuel filter as recommended by your engine manufacturer.
- **Ethanol Content:** Always use fuel with less than 10% ethanol content to prolong the life of the fuel pump and other fuel system components.
- **Pump Body:** Periodically check the pump body for any physical damage or signs of fuel leakage.

7. TROUBLESHOOTING

If you experience issues with your engine's fuel delivery, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine not starting or running poorly (lack of fuel)	Clogged fuel filter, kinked fuel line, faulty fuel pump, empty fuel tank, incorrect fuel type (high ethanol)	Check fuel level, replace fuel filter, inspect fuel lines, verify fuel pump operation, ensure correct fuel is used.
Fuel leaks around pump or lines	Loose connections, cracked fuel lines, damaged pump housing	Tighten clamps, replace damaged fuel lines, replace fuel pump if housing is cracked.
Engine surges or stalls	Intermittent fuel delivery, air in fuel lines, weak fuel pump	Check for air leaks in fuel lines, ensure pulse line is clear, replace fuel pump if weak.

8. SPECIFICATIONS

Specification	Detail
Brand	Stens
Model Number	520-167
Replaces OEM Part Numbers	E-Z-GO: 602061, Walbro: FPC-1-1, 8157, 262-5167, 14655
Dimensions (L x W x H)	2.5 x 5 x 3 inches
Item Weight	2.89 ounces
Body Material	Aluminum
Operation Mode	Hydraulic (Pulse-driven)
Gas Type Compatibility	Not compatible with greater than 10% ethanol fuel
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Tractor (and other small engines)
Inlet Connection Type	Threaded
Outlet Connection Type	Threaded

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Stens 520-167 OEM Fuel Pump, please refer to the official Stens website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

You can visit the [Stens Store on Amazon](#) for more product information.

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