

Manuals.plus /

- › Spectra Premium /
- › Spectra Premium SP1142 Electric Fuel Pump User Manual

Spectra Premium SP1142

Spectra Premium SP1142 Electric Fuel Pump User Manual

Model: SP1142

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Spectra Premium SP1142 Electric Fuel Pump. Please read this manual thoroughly before attempting any installation or service to ensure safety and optimal performance of the product. The Spectra Premium SP1142 is engineered to meet or exceed original equipment performance standards.

2. SAFETY INFORMATION

WARNING: Improper installation or handling of fuel system components can lead to serious injury, fire, or explosion. Professional installation is highly recommended.

- Always disconnect the vehicle's battery before beginning any work on the fuel system.
- Relieve fuel system pressure before disconnecting any fuel lines.
- 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 and electrical connections are properly secured and free from leaks after installation.
- Refer to your vehicle's service manual for specific procedures and torque specifications.

3. PRODUCT OVERVIEW

The Spectra Premium SP1142 is an electric fuel pump designed for vehicle-specific applications. It is a critical component of the fuel delivery system, responsible for supplying fuel from the tank to the engine at the correct pressure. This pump is engineered and developed in Canada, undergoing 100% performance testing and endurance validation by a third-party laboratory to ensure reliability and durability.

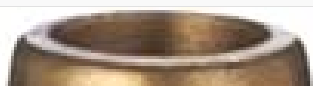








Image 3.1: Front view of the Spectra Premium SP1142 Electric Fuel Pump.



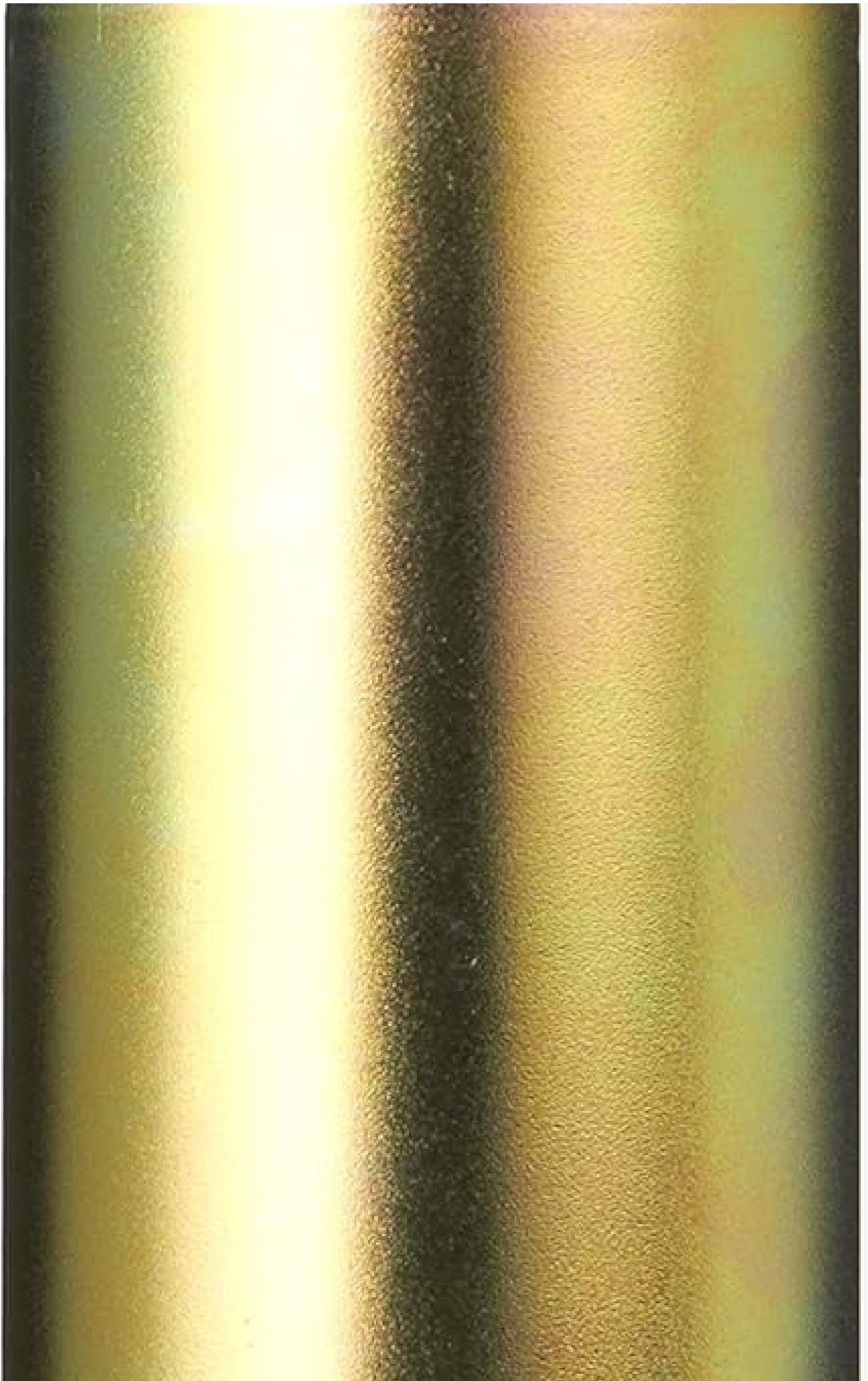




Image 3.2: Side view of the Spectra Premium SP1142 Electric Fuel Pump, showing the main body and connections.



Image 3.3: Top view of the fuel pump, highlighting the electrical terminals and fuel outlet port.



Image 3.4: Bottom view of the fuel pump, showing the fuel inlet and integrated strainer.

4. SETUP AND INSTALLATION

Installation of the Spectra Premium SP1142 Electric Fuel Pump typically involves replacing an existing fuel pump within the vehicle's fuel tank or fuel line. All applicable hardware and components required for installation are provided with the product.

4.1 Pre-Installation Steps

1. **Review Vehicle Service Manual:** Consult your vehicle's specific service manual for detailed instructions on fuel pump replacement, including fuel tank removal (if necessary), fuel line disconnection, and electrical connector procedures.
2. **Gather Tools:** Ensure you have all necessary tools, including wrenches, screwdrivers, fuel line disconnect tools, and a fuel pressure gauge.
3. **Safety Precautions:** Adhere strictly to all safety information outlined in Section 2.

4.2 Installation Procedure (General Steps)

1. **Disconnect Battery:** Disconnect the negative terminal of the vehicle's battery.
2. **Relieve Fuel Pressure:** Follow your vehicle's service manual to safely relieve fuel system pressure.
3. **Access Fuel Pump:** Depending on the vehicle, this may involve removing the rear seat, accessing an access panel, or dropping the fuel tank.
4. **Disconnect Fuel Lines and Electrical Connector:** Carefully disconnect all fuel lines and the electrical connector from the old fuel pump assembly. Be prepared for residual fuel spillage.
5. **Remove Old Pump:** Remove the retaining ring or fasteners securing the old fuel pump assembly. Extract the old pump.
6. **Install New Pump:** Install the Spectra Premium SP1142 fuel pump into the fuel pump module or tank opening. Ensure all seals and gaskets are correctly seated. Use the provided hardware as needed.



Image 4.1: Example of installation hardware and components that may be included with the fuel pump.

7. **Reconnect:** Reconnect fuel lines and the electrical connector. Ensure all connections are secure and leak-free.
8. **Reinstall Components:** Reinstall any removed vehicle components (e.g., fuel tank, access panels).
9. **Reconnect Battery:** Reconnect the negative battery terminal.
10. **Test System:** Turn the ignition key to the 'ON' position (without starting the engine) for a few seconds to allow the pump to prime the system. Repeat this a few times. Check for any fuel leaks. Start the engine and verify proper operation and absence of leaks.

5. OPERATING INSTRUCTIONS

The Spectra Premium SP1142 Electric Fuel Pump operates automatically as part of your vehicle's fuel system. Once correctly installed, it will activate when the ignition is turned on, pressurizing the fuel system, and continue to operate while the engine is running. There are no direct user controls for the fuel pump itself.

6. MAINTENANCE

The Spectra Premium SP1142 Electric Fuel Pump is a sealed unit and does not require routine maintenance. However, the longevity and performance of the fuel pump are directly related to the overall health of your vehicle's fuel system.

- **Fuel Filter:** 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 to prevent contaminants from entering the fuel system and potentially damaging the pump.
- **Avoid Running on Low Fuel:** Consistently running your vehicle with a very low fuel level can expose the fuel pump to air and reduce its cooling, potentially shortening its lifespan.

7. TROUBLESHOOTING

If you experience issues with your vehicle's fuel delivery, consider the following common troubleshooting steps. Always prioritize safety and consult a qualified mechanic if you are unsure.

Symptom	Possible Cause	Recommended Action
Engine cranks but does not start	No fuel pressure, faulty electrical connection, clogged fuel filter.	Check fuel pressure. Verify electrical connections to the pump. Inspect and replace fuel filter if necessary.
Engine misfires or runs rough	Inconsistent fuel pressure, contaminated fuel, clogged fuel filter.	Check fuel pressure. Ensure fuel quality. Replace fuel filter.
Loss of engine power under acceleration	Insufficient fuel delivery, restricted fuel flow.	Check fuel pressure under load. Inspect fuel lines for kinks or damage. Replace fuel filter.
Whining noise from fuel tank	Fuel pump working harder due to restriction, low fuel level, or pump wear.	Check fuel filter. Ensure adequate fuel level. If noise persists, professional diagnosis is recommended.

For complex issues or if basic troubleshooting does not resolve the problem, it is advisable to seek assistance from a certified automotive technician.

8. SPECIFICATIONS

Specification	Detail
Brand	Spectra Premium
Model	SP1142
Operation Mode	Electric
Voltage	12V
Fit Type	Vehicle Specific Fit
Auto Part Position	Rear
Style	Gerotor
Specification Met	OE (Original Equipment)
Item Dimensions (L x W x H)	6.5 x 3.9 x 2.4 inches
Item Weight	0.353 ounces (approx. 10 grams)
UPC	00671607956412
OEM Part Numbers	E99Z9H307A, E9DZ9H307A, F0AZ9H307A, F0AZ9H307C, F0AZ9H307CA, F0AZ9H307D, F0DZ9H307C, F0TZ9H307L, F0VY9H307A, F1DZ9H307A, F1TZ9H307B, F29Z9H307A, F2TZ9H307L, F2TZ9H307LA, F2VZ9A407EA, F2VZ9A407EB, F39Z9H307A, F3DZ9H307D, F3DZ9H307DA, F4DZ9H307D, F4DZ9H307DA, F57Z9H307F, F57Z9H307FA, F69Z9H307AA, F69Z9H307AB, ZZM513350, ZZM513350A

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Spectra Premium SP1142 Electric Fuel Pump, please refer to the documentation included with your purchase or visit the official Spectra Premium website. Warranty terms and conditions may vary.

For technical support or further inquiries, you may visit the Spectra Premium store on Amazon: [Spectra Premium Amazon Store](#).